

Fig. 1

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Fig. 2A

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Fig. 2B (sheet 1 of 3)

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Fig. 2B (sheet 2 of 3)

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Fig. 2B (sheet 3 of 3)

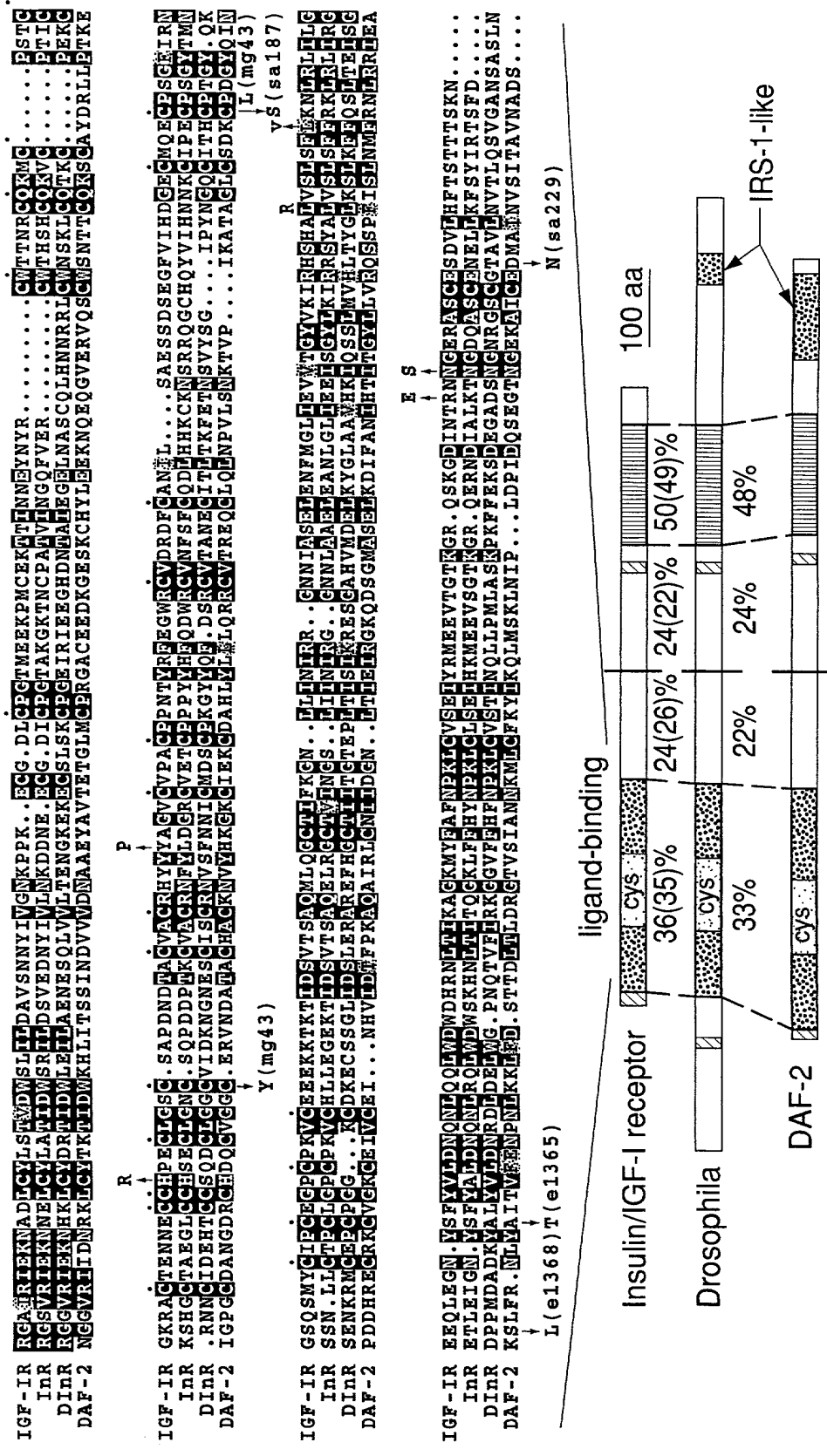


Fig. 2C (sheet 1 of 2)

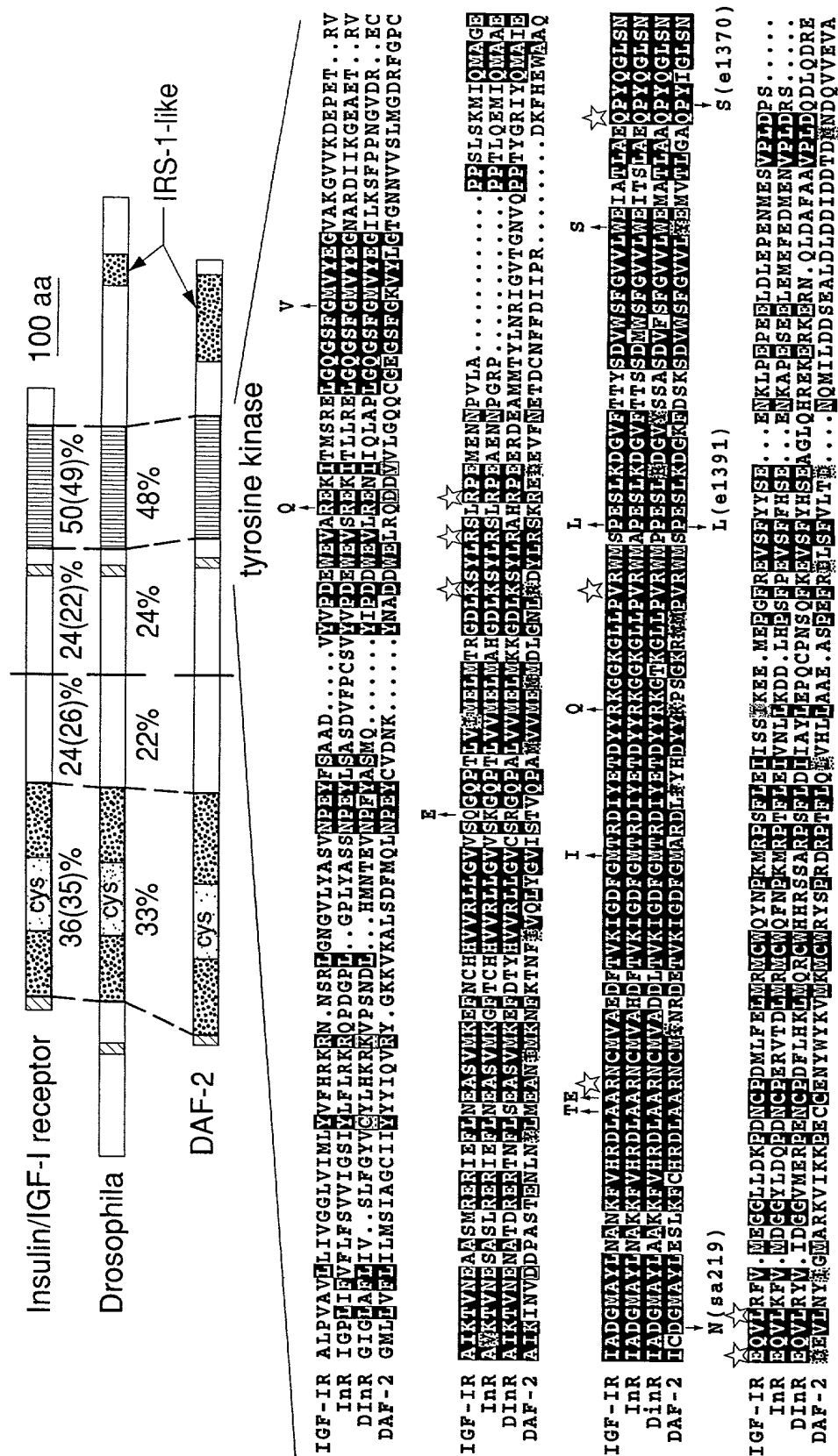


Fig. 2C (sheet 2 of 2)

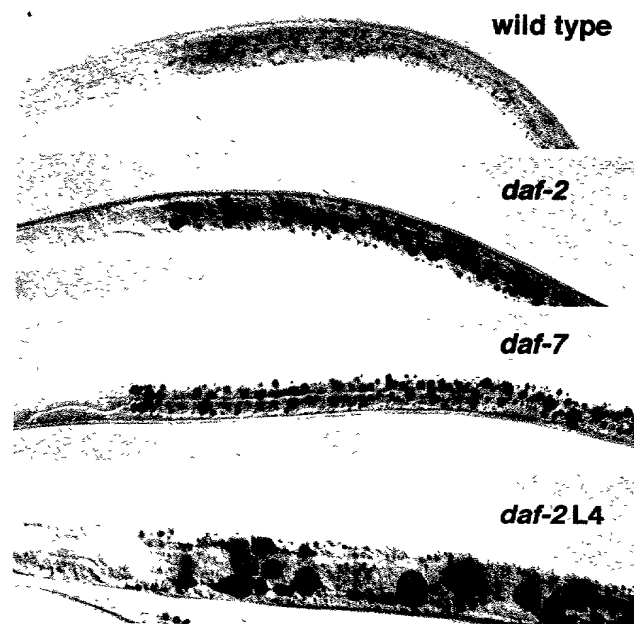


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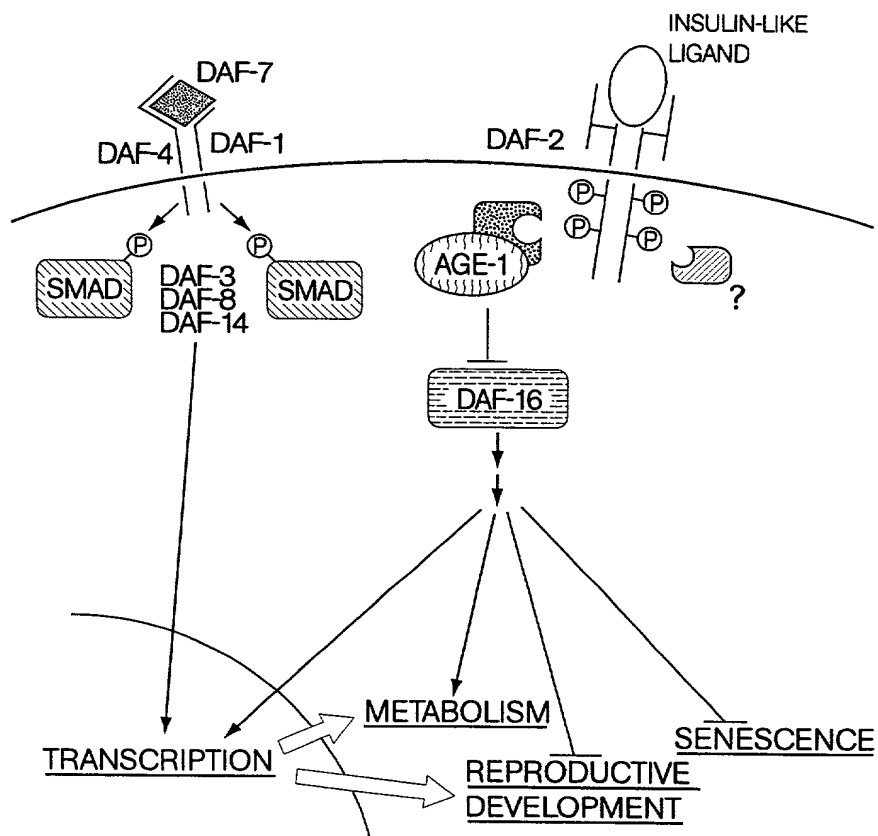


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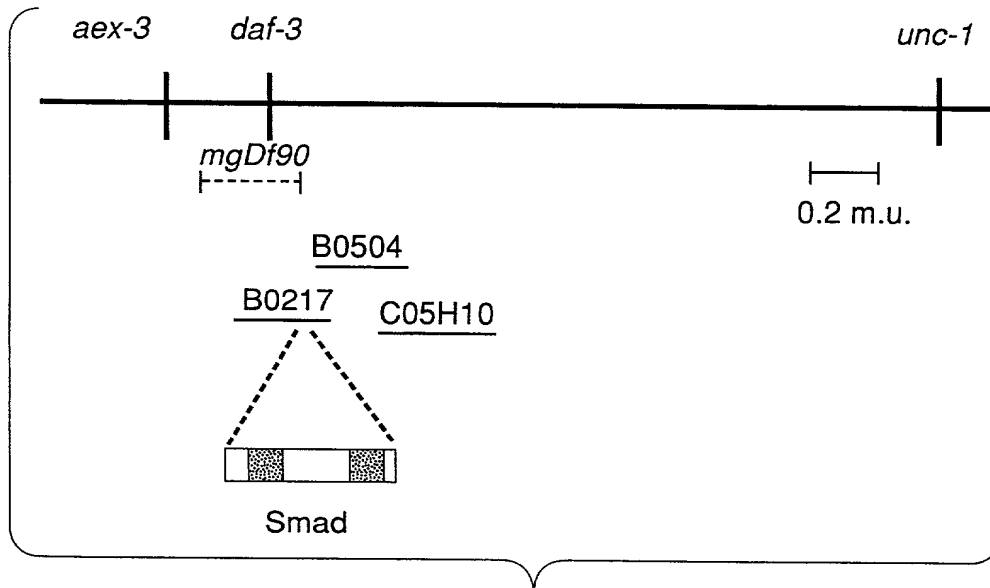


Fig. 5A

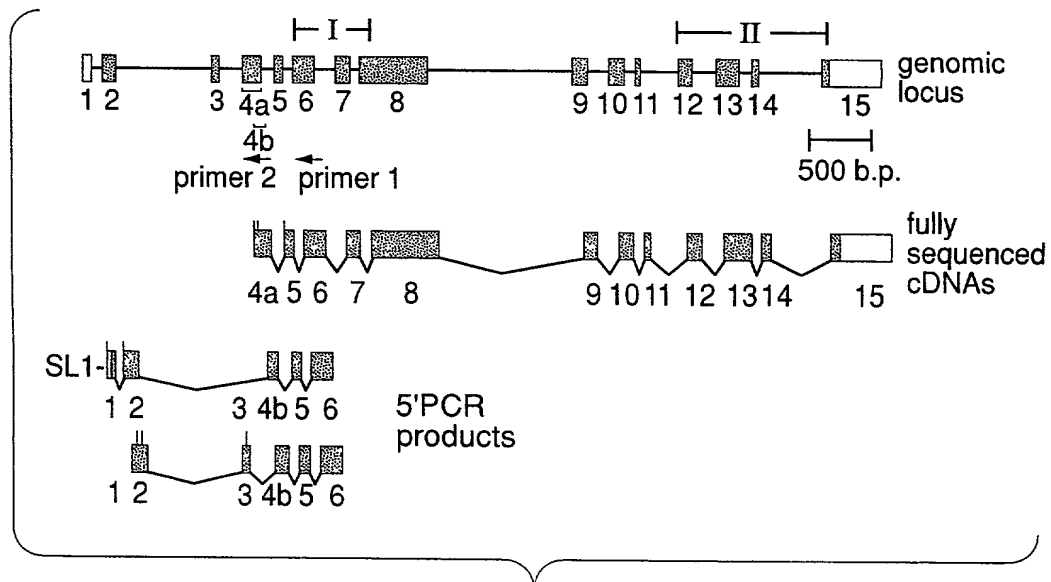


Fig. 5B

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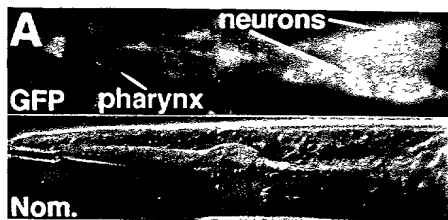


Fig. 6A

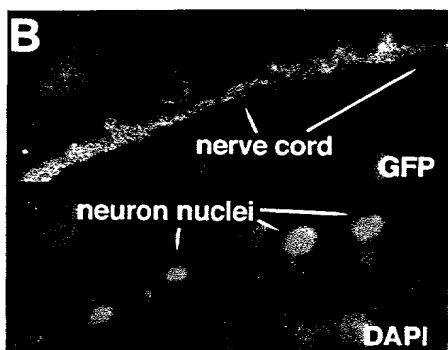


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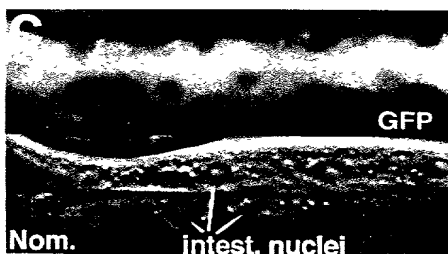


Fig. 6C

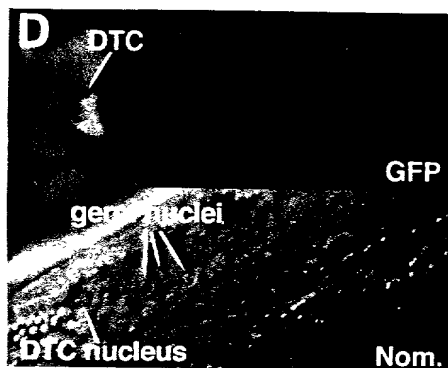


Fig. 6D

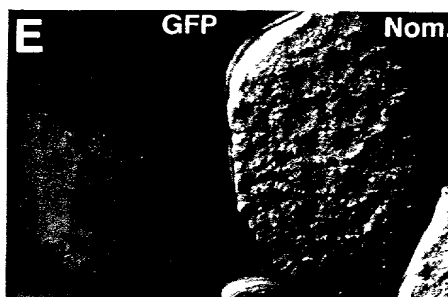


Fig. 6E

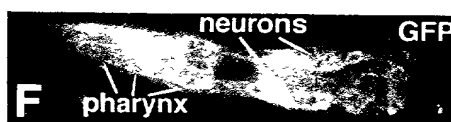


Fig. 6F

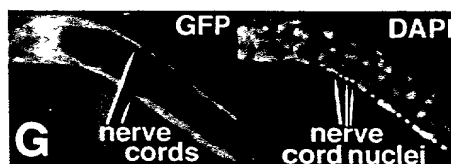


Fig. 6G

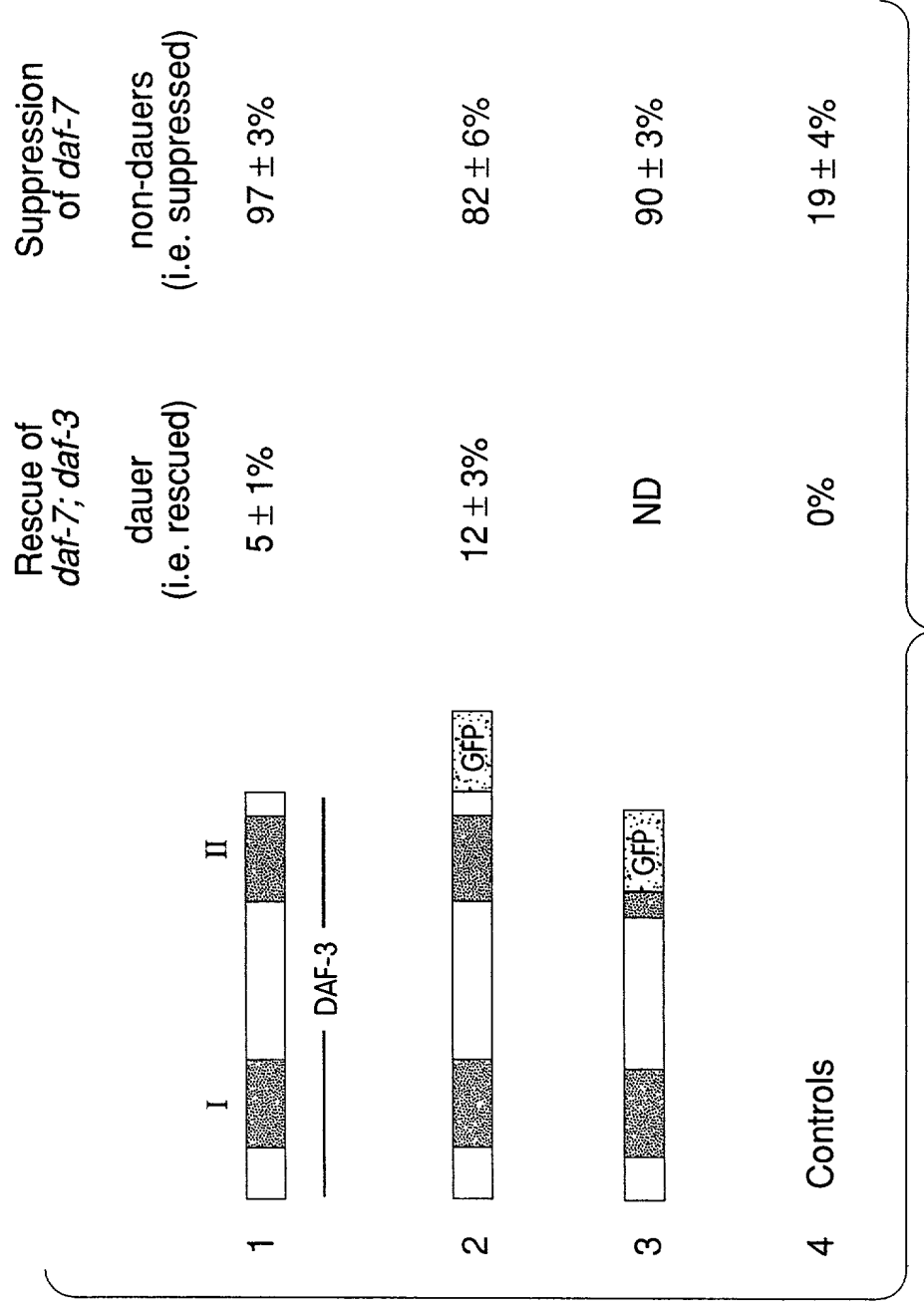


Fig. 7

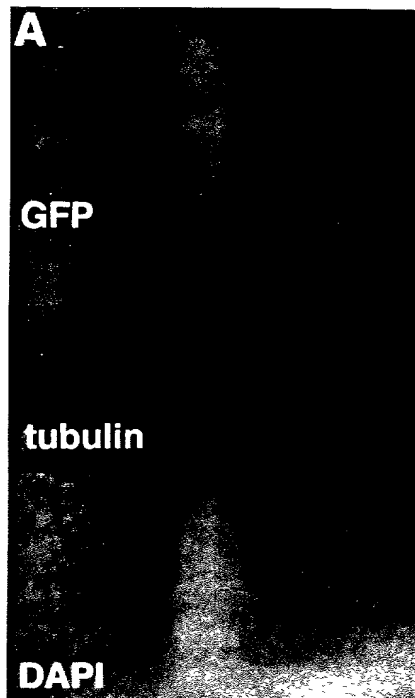


Fig. 8A

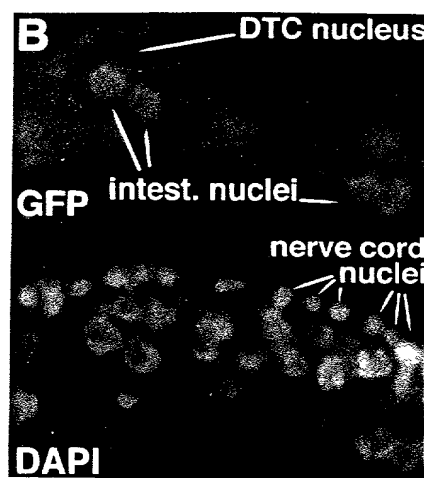


Fig. 8B

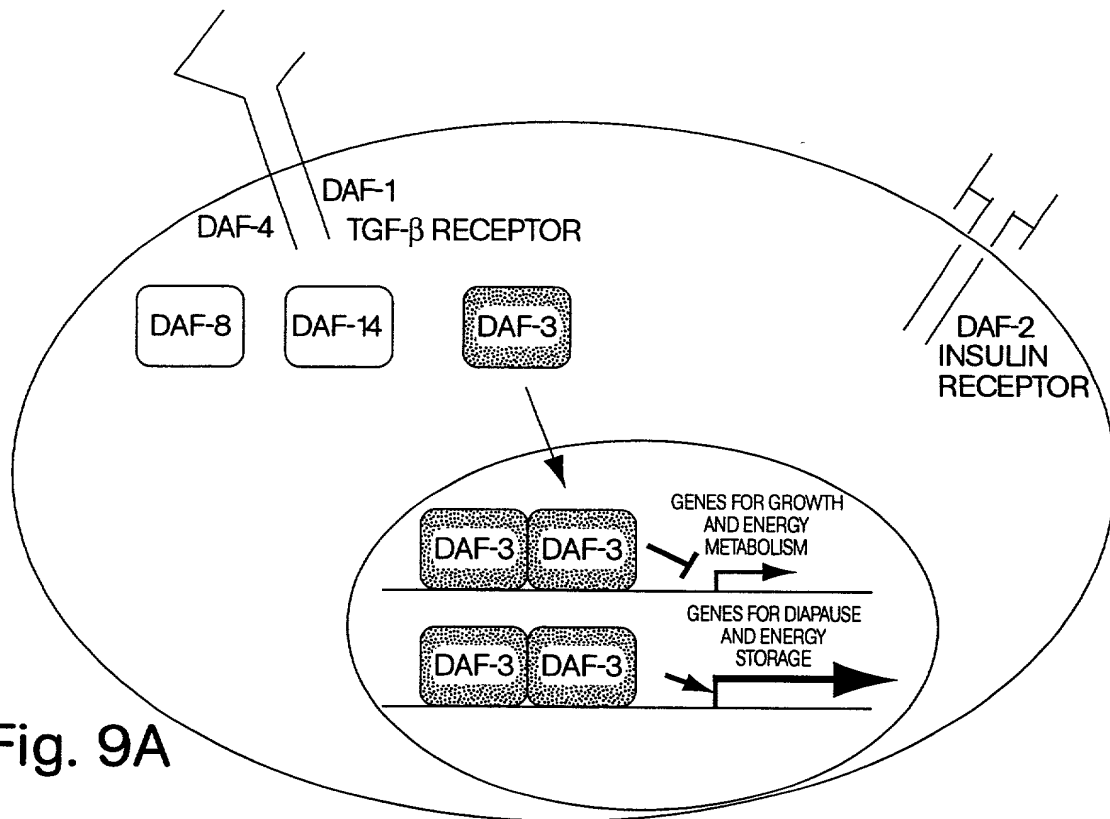


Fig. 9A

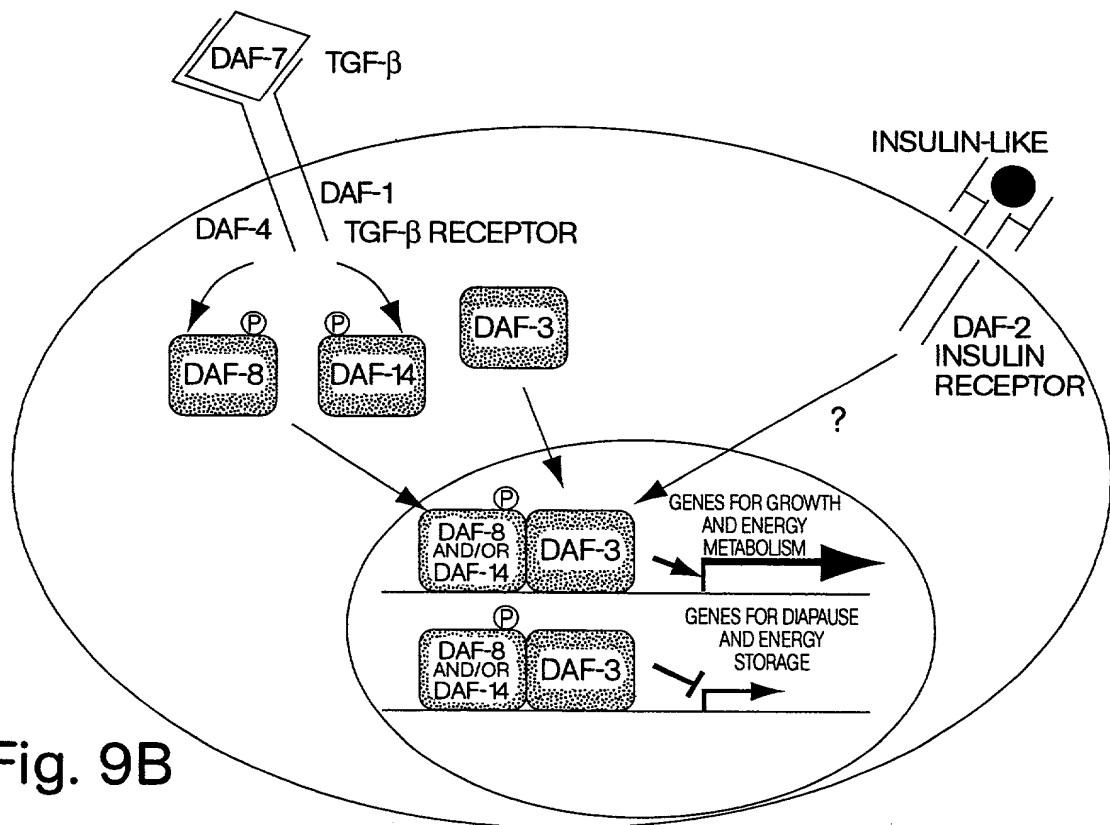


Fig. 9B

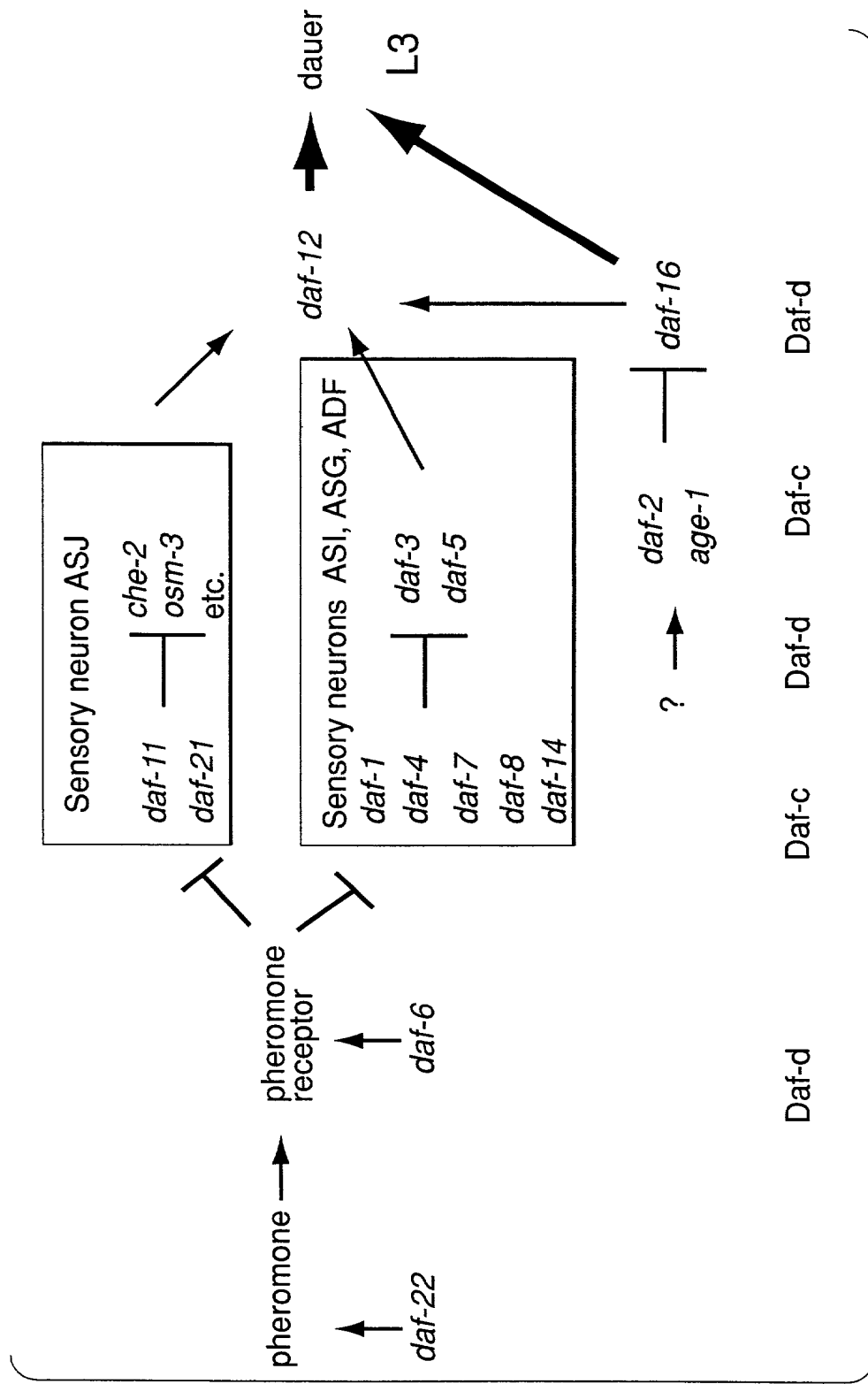


Fig. 10


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Fig. 11A (sheet 1 of 2)

2101	ccgatgaatt	atatctacga	gaagaagact	caggaagagc	tgcgaagggga
2151	agcaacacgc	accactgatt	cattggccaa	gtactgttgt	gtccgtgtct
2201	cgttctgcaa	aggatttgga	gaagcatacc	cagaacgccc	gtcaattcat
2251	gattgtccag	tttggattga	gttgaaaatc	aacattgcct	acgatttcat
2301	ggattcaatc	tgccagtaca	taaccaactg	cttcgagccg	ctaggaatgg
2351	aagattttgc	aaaattggga	atcaacgtca	gtgatgacta	aatgataact
2401	tttttcactc	accctactag	atactgattt	agtcttattc	caaatcatcc
2451	aacgatatac	aactttttcc	tttgaacttt	gcatactatg	ttatcacaag
2501	ttccaagcag	tttcaataca	aacataggat	atgttaacaa	cttttgataa
2551	gaatcaagtt	accaactggt	cattgtgagc	tttgagctgt	atagaaggac
2601	aatgtatccc	atacctcaat	ctttaatagt	catcagtcac	tggtcccgca
2651	ccaatttttt	cgattcgcac	atgtcatata	ttgcaccgtg	gcccttttta
2701	ttgtaacttt	taatataatt	tcttcccaac	ttgtgaatat	gattgatgaa
2751	ccaccatttt	gagtaataaa	tgtatttttt	gtgg	

Fig. 11A (sheet 2 of 2)

1	gtaatcaa	at	tgtaaagg	aa	aatatta	at	agtcagag	ta	cacataa	atg
51	ggtgatc	atc	ataattt	aa	gggcctt	ccc	ggtacct	cca	tcccgcc	aca
101	gttcaac	tat	tctcagc	ccg	gtaccag	cac	cggaggc	ccc	ctttatg	gtg
151	gaaaac	cttc	tcatgg	attg	gaagata	ttc	ctgatgt	aga	ggaatat	gag
201	aggaac	ctgc	tcgggg	ctgg	agcagg	tttt	aatctg	ctca	atgtagg	aaa
251	tatggc	taat	gttccc	gacg	agcacac	acc	gatgat	gtca	ccagtga	ata
301	caactac	aaa	gattct	acaa	cggagt	ggta	ttaaa	atgga	aatccc	gcc
351	tatttgg	atc	cagacag	tca	ggatgat	gac	ccgga	agatg	gtgtcaa	acta
401	cccggat	cca	gatttat	tttg	acacaaa	aaa	cacaa	atatg	accgagt	acg
451	atttgg	atgt	gttga	agctt	ggaaa	accag	cagtag	atga	agcacg	gaaa
501	aagatcg	aag	ttccc	gacgc	tagtg	cgccg	caaaca	aaa	ttgtag	aata
551	tttgat	gtat	tataga	acgt	taaa	agaa	agtca	ata	caactga	atg
601	cgtatcg	gac	aaaac	gaaat	cgatt	atcgt	tgaac	ttggt	caaaa	acaat
651	attgatc	gag	agttc	gacca	aaaag	cttgc	gagtc	ccctgg	tga	aaaaatt
701	gaaggata	aag	aagaat	gatc	tccaga	acct	gattgat	gtg	gttcttt	caa
751	aaggtaca	aaa	atata	ccggt	tgcatt	acaa	ttcca	aggac	acttgat	ggc
801	cggttac	agg	tccac	ggaag	aaaag	gtttc	cctcac	gtag	tctatg	gcaa
851	actgtg	gagg	ttta	atgaaa	tgaca	aaaaa	cgaa	acgct	catgtg	gacc
901	actgca	agca	cgcatt	tgtga	atgaaa	agtg	acatg	gtatg	cgtga	atccc
951	tactact	acg	aaatt	gtcat	tggaa	ctatg	attgtt	gggc	agagg	gatca
1001	tgacaat	cga	gatat	gccgc	cgccac	atca	acgct	accac	actcc	aggtc
1051	ggcagg	atcc	agttg	acgat	atgag	tagat	ttata	accac	agctt	ccatt
1101	cgtccgc	cctc	cgatg	aacat	gcacac	aagg	cctcag	ccta	tgcct	caaca
1151	attgcct	tca	gttgg	cgcga	cgttt	gccca	tcctc	tcca	catcag	gcgc
1201	cacata	aacc	agggg	tttca	catcc	gtact	ccatt	gctcc	acagac	ccat
1251	taccg	ttga	acatga	aacc	aattc	cgca	atgcc	gcaaa	tgccac	aaat
1301	gccacc	acct	ctccat	cagg	gatat	ggaat	gaatg	gggcc	agttg	ctctt
1351	cagaaa	acaa	caatcc	attc	caccaa	aatc	accatt	tata	tgat	attagc
1401	catccaa	atc	actatt	ccta	cgact	gtggt	ccga	acttg	acggg	tttcc
1451	aactc	cttat	ccggat	tttc	accat	ccttt	caatc	agcaa	ccacac	cagc
1501	cgccaca	act	atcac	aaaac	catac	gtccc	aaca	aggcag	tcatc	aacca
1551	gggcac	caag	gtcagg	tacc	gaatg	atcca	ccaat	ttcaa	gaccag	tgtt
1601	acaacc	atca	acagtc	acct	tggac	gtgtt	ccgtc	ggtac	tgtag	acaga
1651	catttg	gaaa	tcgatt	ttttt	gaagg	agaaa	gtga	acaatc	cggcg	caata
1701	attcgg	tcta	gtaaca	aaatt	cattg	aagaa	tttg	attcgc	cgattt	gtgg
1751	tgtgac	agtt	gttcg	accgc	ggatg	acaga	cgg	tgaggtt	ttgg	agaaca
1801	tcatg	ccgga	agatg	cacca	tatcat	gaca	tttg	caagtt	catttt	tgagg
1851	ctcac	atcag	aaagt	gtaac	tttct	cagga	gaggg	gccag	aagtt	agtga
1901	tttga	acgaa	aaatg	gggaa	caatt	gtgta	ctatg	agaaa	aattt	gcaaa
1951	ttggc	gagaa	aaaat	gttcg	agagg	aaatt	tccac	gtgga	tggcg	gattc
2001	atttg	ctctg	agaat	cgтта	cagt	ctcgga	cttg	agccaa	atcca	attag
2051	agaac	cagtg	gcgtt	ttaaag	ttcgt	aaagc	aatag	tggat	ggaatt	cgct

Fig. 11B (sheet 1 of 2)

2101	tttcctacaa	aaaagacggg	agtgtttggc	ttcaaaaccg	catgaagtac
2151	ccggtatttg	tcacttctgg	gtatctcgac	gagcaatcag	gaggcctaaa
2201	gaaggataaa	gtgcacaaag	tttacggatg	tgcgtctatc	aaaacgtttg
2251	gcttcaacgt	ttccaaacaa	atcatcagag	acgcgcttct	ttccaagcaa
2301	atggcaacaa	tgtacttgca	aggaaaattg	actccgatga	attatatcta
2351	cgagaagaag	actcaggaag	agctgcgaag	ggaagcaaca	cgcaccactg
2401	attcattggc	caagtactgt	tgtgtccgtg	tctcgttctg	caaaggattt
2451	ggagaagcat	acccagaacg	cccgtcaatt	catgattgtc	cagtttggat
2501	tgagttgaaa	atcaacattg	cctacgattt	catggattca	atctgccagt
2551	acataaccaa	ctgcttcgag	ccgctaggaa	tggaagattt	tgcaaaattg
2601	ggaatcaacg	tcagtgatga	ctaaatgata	acttttttca	ctcaccctac
2651	tagatactga	tttagtctta	ttccaaatca	tccaacgata	tcaaactttt
2701	tcctttgaac	tttgcatact	atgttatcac	aagttccaag	cagtttcaat
2751	acaaacatag	gatatgttaa	caacttttga	taagaatcaa	gttaccact
2801	gttcattgtg	agctttgagc	tgtatagaag	gacaatgtat	cccatacctc
2851	aatctttaat	agtcatcagt	cactgggtccc	gcaccaattt	tttcgattcg
2901	catatgtcat	atattgcacc	gtggcccttt	ttattgtaac	ttttaatata
2951	ttttcttccc	aacttgtgaa	tatgattgat	gaaccaccat	tttgagtaat
3001	aaatgtattt	tttgtgg			

Fig. 11 B (sheet 2 of 2)

1	gtaatcaa	at	tgtaaagg	aaatatta	at	agtcagag	ta	cacataaa	atg
51	ggtgatca	tc	ataattta	ac	gggccttc	ccc	ggtacctc	ca	tcccgccaca
101	gttcaact	at	tctcagccc	g	gtaccagca	c	cggaggccc	g	ctttatggtg
151	gaaaacct	tc	tcatggatt	g	gaagatatt	c	ctgatgtaga		ggaatatgag
201	aggaacct	gc	tccggggct	gg	agcaggttt	t	aatctgctca		atgtaggaaa
251	tatggcta	at	gaatttaa	ac	caataatca	c	attggacacg		aaaccacctc
301	gtgatgcc	aa	caagtcatt	g	gcattcaat	g	gcgggttgaa		gctaatact
351	ccgaaaact	g	aagttccc	ga	cgagcacaca		ccgatgatgt		caccagtga
401	tacaacta	ca	aagattct	ac	aacggagtg	g	tattaaaatg		gaaatcccgc
451	catatttg	ga	tccagacag	t	caggatgat	g	acccggaaga		tggtgtcaac
501	tacccgga	tc	cagatttt	att	tgacacaaa		aacacaaata		tgaccgagta
551	cgatttgga	t	gtgttgaa	gc	ttggaaaac	c	agcagtagat		gaagcacgga
601	aaaagatcg	a	agttcccga	c	gctagtgcg	c	cgccaaacaa		aattgtagaa
651	tatttgatg	t	attataga	ac	gttaaaagaa		agtgaactca		tacaactgaa
701	tgcgatat	cgg	acaaaacga	a	atcgattat	c	gttgaacttg		gtcaaaaaca
751	atattgatc	g	agagttcga	c	caaaaagct	t	gcgagtcct		ggtgaaaaaa
801	ttgaaggata		agaagaatga		tctccagaac		ctgattgatg		tggttctttc
851	aaaaggtaca		aaatataccg		gttgcat	ac	aattccaagg		acacttgatg
901	gccggttaca		ggtccacgga		agaaaagg	tt	tccctcacgt		agtctatggc
951	aaactgtgga		ggtttaatga		aatgacaaaa		aacgaaacgc		gtcatgtgga
1001	ccactgcaag		cacgcatttg		aaatgaaaag		tgacatggta		tgcgatgaatc
1051	cctatcacta		cgaaattgtc		attggaacta		tgattgttgg		gcagagggat
1101	catgacaatc		gagatatgcc		gccgccacat		caacgctacc		acactccagg
1151	tcggcaggat		ccagttgacg		atatgagtag		atttatacca		ccagcttcca
1201	ttcgtccgcc		tccgatgaac		atgcacacaa		ggcctcagcc		tatgcctcaa
1251	caattgcctt		cagttggcgc		aacgtttgcc		catcctctcc		cacatcaggc
1301	gccacataac		ccagggggtt		cacatccgta		ctccattgct		ccacagaccc
1351	attacccgtt		gaacatgaac		ccaattccgc		aaatgccgca		aatgccacaa
1401	atgccaccac		ctctccatca		gggatatgga		atgaatgggc		cgagttgctc
1451	ttcagaaaac		aacaatccat		tccaccaaaa		tcaccattat		aatgatatta
1501	gccatccaaa		tactattcc		tacgactgtg		gtccgaactt		gtacgggtt
1551	ccaactcctt		atccggattt		tcaccatcct		ttcaatcagc		aaccacacca
1601	gccgccacaa		ctatcacaaa		accatacgtc		ccaacaaggc		agtcatcaac
1651	cagggcacca		aggtcaggta		ccgaatgatc		caccaatttc		aagaccagtg
1701	ttacaaccat		caacagtcac		cttgacgtg		ttccgtcgg		actgtagaca
1751	gacatttgga		aatcgatttt		ttgaaggaga		aagtgaacaa		tccggcgcaa
1801	taattcggtc		tagtaacaaa		ttcattgaag		aatttgattc		gccgatttgt
1851	ggtgtgacag		ttgttcgacc		gcggatgaca		gacggtgagg		ttttggagaa
1901	catcatgccg		gaagatgcac		catatcatga		catttgcaag		ttcattttga
1951	ggctcacatc		agaaagtgt	a	actttctcag		gagaggggcc		agaagttagt
2001	gatttgaacg		aaaaatggg	g	aacaattgtg		tactatgaga		aaaatttgca
2051	aattggcgag		aaaaatggt	t	cgagaggaaa		ttccacgtg		gatggcggat

Fig. 11C (sheet 1 of 2)

2101	tcatttgctc	tgagaatcgt	tacagtctcg	gacttgagcc	aaatccaatt
2151	agagaaccag	tggcgtttaa	agttcgtaaa	gcaatagtgg	atggaattcg
2201	cttttcctac	aaaaaagacg	ggagtgtttg	gcttcaaaac	cgcatgaagt
2251	acccggtatt	tgtcacttct	gggtatctcg	acgagcaatc	aggaggccta
2301	aagaaggata	aagtgcacaa	agtttacgga	tgtgCGtcta	tcaaaacgtt
2351	tggcttcaac	gtttccaaac	aaatcatcag	agacgcgctt	ctttccaagc
2401	aaatggcaac	aatgtacttg	caaggaaaat	tgactccgat	gaattatata
2451	tacgagaaga	agactcagga	agagctgcga	aggggaagcaa	cacgcaccac
2501	tgattcattg	gccaagtact	gttgtgtccg	tgtctcgttc	tgcaaaggat
2551	ttggagaagc	ataccagaa	cgcccgctcaa	ttcatgattg	tccagtttgg
2601	attgagttga	aaatcaacat	tgcctacgat	ttcatggatt	caatctgcca
2651	gtacataacc	aactgcttcg	agccgctagg	aatggaagat	tttgcaaaat
2701	tgggaatcaa	cgtcagtgat	gactaaatga	taactttttt	cactcaccct
2751	actagatact	gatttagtct	tattccaaat	catccaacga	tatcaaactt
2801	tttcctttga	actttgcata	ctatgttatc	acaagttcca	agcagttttca
2851	atacaaacat	aggatatgtt	aacaactttt	gataagaatc	aagttaccaa
2901	ctgttcattg	tgagctttga	gctgtataga	aggacaatgt	atcccatacc
2951	tcaatcttta	atagtcatca	gtcactggtc	ccgcaccaat	tttttcgatt
3001	cgcatatgtc	atatattgca	ccgtggccct	ttttattgta	acttttaata
3051	tattttcttc	ccaacttggt	aatatgattg	atgaaccacc	attttgagta
3101	ataaatgtat	tttttgtgg			

Fig. 11C (sheet 2 of 2)

1	MKLIATSLLV	PDEHTPMMS	VNTTTKILQR	SGIKMEIPPY	LDPDSQDDDD
51	EDGVNYPDPD	LFDTKNTNMT	EYDLVDLKL	KPAVDEARKK	IEVPDASAPP
101	NKIVEYLMYY	RTLKESELIQ	LNAYRTKRNR	LSLNLVKNNI	DREFDQKACE
151	SLVKKLKDKK	NDLQNLIDVV	LSKGTKYTGC	ITIPRTLGR	LQVHGRKGFP
201	HVVYGLWRF	NEMTKNETRH	VDHCKHAFEM	KSDMVCVNPY	HYEIVIGTMI
251	VGQRDHDNRD	MPPPHQRYHT	PGRQDPVDDM	SRFIPPASIR	PPPMNMHTRP
301	QPMPOQLPSV	GATFAHPLPH	QAPHNPGVSH	PYSIAPQTHY	PLNMNPIPQM
351	PQMPQMPPPL	HQGYGMNGPS	CSENNNPFH	QNHHYNDISH	PNHYSYDCGP
401	NLYGFPTPYP	DFHHPFNQOP	HQPPQLSQNH	TSQQGSHQPG	HQGQVPNDPP
451	ISRPVLQPS	VTLDVFRRYC	RQTFGNRFFE	GESEQSGAII	RSSNKFIEEF
501	DSPICGVTVV	RPRMTDGEVL	ENIMPEDAPY	HDICKFILRL	TSESVTFSGE
551	GPEVSDLNEK	WGTIVYYEKN	LQIGEKKCSR	GNFHVDGGFI	CSENRYSLGL
601	EPNPIREPVA	FKVRKAIVDG	IRFSYKKDGS	VWLQNRMKYP	VFVTSGYLDE
651	QSGGLKKDKV	HKVYGCASIK	TFGFNVSKQI	IRDALLSKQM	ATMYLQGLT
701	PMNYIYEKKT	QEELRREATR	TTDSLAKYCC	VRVSFCKGFG	EAYPERPSIH
751	DCPVWIELKI	NIAYDFMDSI	CQYITNCFEP	LGMEDFAKLG	INVSDD

Fig. 12A

1	MGDHHNLTGL	PGTSIPPQFN	YSQPGTSTGG	PLYGGKPSHG	LEDIPDVEEY
51	ERNLLGAGAG	FNLLNVGNMA	NVPDEHTPMM	SPVNTTTKIL	QRSGIKMEIP
101	PYLDPDSQDD	DPEDGVNYPD	PDLFDTKNTN	MTEYDLDLVK	LGKPAVDEAR
151	KKIEVPDASA	PPNKIVEYLM	YYRTLKESEL	IQLNAYRTKR	NRLSLNLVKN
201	NIDREFDQKA	CESLVKKLKD	KKNDLQNLID	VVLSKGTKYT	GCITIPRTLD
251	GRLQVHGRKG	FPHVVGKLV	RFNEMTKNET	RHVDHCKHAF	EMKSDMVCVN
301	PYHYEIVIGT	MIVGQRDHDN	RDMPPPHQRY	HTPGRQDPVD	DMSRFIPPAS
351	IRPPPMNMHT	RPQPMQQLP	SVGATFAHPL	PHQAPHNPGV	SHPYSIAPQT
401	HYPLNMNPIP	QMPQMPQMPP	PLHQGYGMNG	PSCSSENNNP	FHQNHYYNDI
451	SHPNHYSYDC	GPNLYGFPTP	YPDFHHPFNQ	QPHQPPQLSQ	NHTSQQGS HQ
501	PGHQGVVND	PPISRPVLQP	STVTLDVFR	YCRQTFGNRF	FEGESEQSGA
551	IIRSSNKFIE	EFDSPICGVT	VVRPRMTDGE	VLENIMPEDA	PYHDICKFIL
601	RLTSESVTFS	GEGPEVSDLN	EKWGTIVYYE	KNLQIGEKKC	SRGNFHV DGG
651	FICSENRYSL	GLEPNPIREP	VAFKVRKAIV	DGIRFSYK KD	GSVWLQNRMK
701	YPVFVTSGYL	DEQSGGLK KD	KVHKVYGCAS	IKTFGFNVSK	QIIRDALLSK
751	QMATMYLQ GK	LTPMNYIYEK	KTQEELRREA	TRTTDSLAKY	CCVRVSFCKG
801	FGEAYPERPS	IHDCPVWIEL	KINIAYDFMD	SICQYITNCF	EPLGMEDFAK
851	LGINVSDD				

Fig. 12B

1	MGDHHNLTGL	PGTSIPPQFN	YSQPGTSTGG	PLYGGKPSHG	LEDIPDVEEY
51	ERNLLGAGAG	FNLLNVGNMA	NEFKPIITLD	TKPPRDANKS	LAFNGGLKLI
101	TPKTEVPDEH	TPMMSPVNTT	TKILQSRGIK	MEIPPYLDPD	SQDDDPEDGV
151	NYPDPDLFDT	KNTNMTEYDL	DVLKLGKPAV	DEARKKIEVP	DASAPPNKIV
201	EYLMYYRTLK	ESELIQLNAY	RTKRNRSLN	LVKNNIDREF	DQKACESLVK
251	KLKDKKNDLQ	NLIDVVL SKG	TKYTGCITIP	RTLDGRLQVH	GRKGFPHVVY
301	GKLWRFNEMT	KNETRHVDHC	KHAFEMKSDM	VCVNPYHYEI	VIGTMIVGQR
351	DHDNRDMPPP	HQRYHTPGRQ	DPVDDMSRFI	PPASIRPPPM	NMHTRPQMP
401	QQLPSVGATF	AHPLPHQAPH	NPGVSHPYSI	APQTHYPLNM	NPQPMPQMP
451	QMPPPLHQGY	GMNGPSCSSE	NNNPFHQNH	YNDISHPNHY	SYDCGPNLYG
501	FPTPYPDFHH	PFNQPHQPP	QLSQNHTSQQ	GSHQPGHQGQ	VPNDPPISRP
551	VLQPSVTLD	VFRRYCRQTF	GNRFFEGESE	QSGAIRSSN	KFIEEFDSP
601	CGVTVVRPRM	TDGEVLENIM	PEDAPYHDIC	KFILRLTSES	VTFSGEGPEV
651	SDLNEKWGTI	VYYEKNLQIG	EKKCSRGNFH	VDGGFICSEN	RYSGLLEPNP
701	IREPVAFKVR	KAIVDGIRFS	YKKDGSVWLQ	NRMKYPVFVT	SGYLDEQSGG
751	LKKDKVHKVY	GCASIKTFGF	NVSKQIIRDA	LLSKQMATMY	LQKGLTPMNY
801	IYEKKTQEEL	RREATRTTDS	LAKYCCVRVS	FCKGFGEAYP	ERPSIHDCPV
851	WIELKINIAY	DFMDSICQYI	TNCFEPLGME	DFAKLGINVS	DD

Fig. 12C

tgatctttcaagccgaagcaatcaagacctcaaagccaatcaactctactcactttttcttcagaaccttaactttttgtg
tcactttcccccacaaacggttcaagctgctgccttcactctcatcccctcctcttactccttctttctcgtccgctacta
ctgtatcttctgacatctacctgtatacacaccagtgccagtcctgcatcgtccattacaatttcatcaattgacacttctt
caacaacaaccggtcctcattcactcccatttcttctcatcctcaacatcgtcgtctttggctgaaattcccgaaga
cgttatgatggagatgctggtagatcagggaaactgatgcacgtcatccgctccacgtccacctcatctgtttcgagat
tcggagcggacacgttcatgaatacaccggatgatgtgatgatgaatgatgatatggaaccgattcctcgtgatcgggtgc
aatacgtggccaatgcgtaggccgcaactcgaaccaccactcaactcgagtcctatttcatgaacaaaattcctgaaga
agatgctgacctatacgggagcaatgagcaatgtggacagctcggcggagcatcttcaaacgggtcgacagcaatgcttc
atactccagatggaagcaattctcatcagacatcgtttcttcggagtttcagaatgtccgaatcgccagacgataccgta
tcgggaaaaaagacaacgaccagacggaacgcttggggaaatatgtcatatgctgaacttatcactacagccattatggc
tagtccagagaaaacggttaactcttgcacaagttacgaatggatgggtccagaatgttccatacttcagggataagggag
attcgaacagttcagctggatggaagaactcgatccgtcacaatctgtctcttctcattctcgtttcatgcaattcagaat
gaaggagccggaaagagctcgtggtgggttattaatccagatgcaaagccaggaatgaatccacggcgtacacgtgaacg
atccaatactattgagacgactacaaaggctcaactcgaaaaatctcgccggagccaagaagaggataaaggagagag
cattgatgggtcccttctcactcgacacttaattggaattcgattgcccggatcgattcaaacgatttctcacgatttgtat
gatgatgatcaatgcaaggagcatttgataacgttccatcatcttccgtccccgaactcaatcgaacctctcgattcct
ggatcgtcgtctcgtgtttctccagctattggaagtgatctatgatgatctagaattcccatcatgggttggcgaatc
ggttccagcaattccaagtgatattgttgatagaactgatcaaatgcgtatcgatgcaactactcatagttgggtggagtt
cagattaagcaggagtcgaagccgattaagacggaaccaattgctccaccaccatcataccacgagttgaacagtgctccg
tgatcgtgtgctcagaatccacttcttcgaaatccaattgtgccaagcactaacttcaagccaatgccactaccgggtg
cctatggaaactatcaaaatggtggaataactccaatcaattggctatcaacatccaactcatctccactgcctggaatt
caatcgtgtggaattgtagctgcacagcatactgtcgttcttcatcggtcttccaattgatttggaaaatctgacact
tcccgatcagccactgatggatactatggatgttgatgcattgatcagacatgagctgagtcgaagctggagggcagcata
ttcattttgatttgtaaattctcttcattttgtttcccctgggtgttgttcgaaagagagatagcaaagcagcgaggagt
aggtaagcagcaataaaaaatttggatttttttttgggtttttccagaaataatcgattttctggaaaatttcaaaaaaa
atcggaatttttagttaattatttgatgagaaaaaaaattagaaaacataaggaaaaatgaaaagcgttttttttttc
gaaaatttttagaattctcctacatttccaataaggcccttagaactgcaacacacaaaaattggaattttcgaatcaaa
aagttcccgaataaaaagtagttcgaatattaaaaagcatttaatttctctttaaataattgaaataatagccgaaattt
gcagatttttttctgaaaatcgaaaaaccaaattttttgatttttttaatttttttttactttccagatagtaaaat
cattagcactgaaaattatttgaaaaaaaacttcaaatacaaaattttgttttcgaaaaaaaatttaaatatataatttt
cagaaatcttccgtcttcatcttttcaaattccctacctacacacactcaacgatcatcacagccagaccatcaatattct
tccaaatttgacgtcgttaatttttttcagtttttcaaaaactctattttctattttctgtcgtttgttccccttct
tctcgtctaattccaacacattcatcccagtgacgtcgtgtaataataataaaatacctcttctctcttcttcccct
aatgcgaaatatcgaaaaacggttgattattacctcttttttctgttttttttctctctctctctcccgtcatccag
gttcttctactctttaatgctacctctatcccacttttttctgctgtaaatgttttcgcaatcaaaactgctaaaacaca
ttccccaatctgtcttttttaattgaatttttcaaaaaatttgatttcttgatttctcttgtaattctttaattttctc
tttttttcccctggtagcaaatgtctagcgattctcttctttttttgtttaactttcacatctggccgattcgaatc
ctcgtatacacacacacatagtaattctacctcaaaattttactgaaagatgtgatcccctctctgtctccctctacaa
aacattatttctgtgtttgtgtatattgccaccacgtcgatttttaattaaaaccatcgtttttcttcttcttacttt
tttctcgaaaaatttaacaacacacacaaaaaatccttcaaaaaatctcagtttttaaatgggtgtggcaatatatcggatcc
ccctctacaccagaacagtccttgcaatttcagagaatgattttcagatttttcatatcacaggcccccttttttgcctg
tttttttctctacctctctt
attcttcttggctatttctgattttcgagttcatattctctacgtctcactttctctcgccacgccccctttttctgct
tccctccgcccccaaatatatttgcgactgtatgatgatgatgatgatttaataaaaaat

Fig. 13A

Fig. 13B

MMEMLVDQGTDASSASTSTSSVSFRGADTFMNTPDDVMMNDDMEPIPRDR
 CNTWPMRRPQLEPPLNSSPIIHEQIPEEDADLYGSNEQCGQLGGASSNGST
 AMLHTPDGNSHQTSFSPSDFRMSSEPDPTVSGKKTTRRNAWGNMSYAEI
 TTAIMASPEKRLTLAQVYEWVQNPYPFRDKGDSNSSAGWKNSIRHNLSLH
 SRFMRIQNEGAGKSSWWVINPDAKPGMNPRRTRERSNTIETTTKAQLEKSR
 RGAKKRIKERMALMGSLHSTLNGNSIAGSIQTISHDLYDDDSMQGAFDNVPS
 SFRPRTQSNLSIPGSSSRVSPAIGSDIYDDLEFPSWVGESVPAIPSDIVDR
 TDQMRIDATTHIGGVQIKQESKPIKTEPIAPPPSYHELNSVRGSCAQNPLL
 RNPIVPSTNFKPMPLPGAYGNYQNGGITPINWLSTSNSSPLPGIQSCGIVA
 AQHTVASSSALPIDLENLTLPDQPLMDTMDVDALIRHELSQLAGGQHIHFDL

Fig. 14A

MQQYIYQESSATIPHHHLNQHNPNPYHPMHPHHQLPHMQQLPQPLNLNMTT
 LTSSGSSVASSIGGGAQCSPCASGSSTAATNSSQQQQTVGQMLAASVPCSS
 SGMTLGMSLNLSSQGGGMPAKKKRCRKKPTDQLAQKKPNPWGEESYSDIIA
 KALESAPDGRLKLNEIYQWFSDNIPYFGERSSPPEEAAGWKNSIRHNLSLHS
 RFMRIQNEGAGKSSWWVINPDAKPGMNPRRTRERSNTIETTTKAQLEKSRR
 GAKKRIKERMALMGSLHSTLNGNSIAGSIQTISHDLYDDDSMQGAFDNVPSS
 FRPRTQSNLSIPGSSSRVSPAIGSDIYDDLEFPSWVGESVPAIPSDIVDRT
 DQMRIDATTHIGGVQIKQESKPIKTEPIAPPPSYHELNSVRGSCAQNPLLR
 NPPIVPSTNFKPMPLPGAYGNYQNGGITPINWLSTSNSSPLPGIQSCGIVAA
 QHTVASSSALPIDLENLTLPDQPLMDTMDVDALIRHELSQLAGGQHIHFDL

Fig. 14B

1	cggaagccat	ggagctcgag	atctgattgc	tggacacgga	cggaactccg	acgtatctcg
61	cagatgcatg	ttaacatttt	acatccacaa	ctgcaaacga	tggtcgagca	gtggcaaatg
121	cgagaacgcc	catcgctgga	gaccgagaat	ggcaaaggat	cgctgctcct	ggaaaatgaa
181	ggtgtcgag	atatcatcac	tatgtgtcca	ttcggagaag	ttattagtgt	agtatttccg
241	tggtttcttg	caaatgtgcg	aacatcgcta	gaaatcaagc	tatcagattt	caaacatcaa
301	cttttcgaat	tgattgctcc	gatgaagtgg	ggaacatatt	ccgtaaagcc	acaggattat
361	gtgttcagac	agttgaataa	tttcggcgaa	attgaagtta	tatttaacga	cgatcaaccc
421	ctgtcgaaat	tagagctcca	cggcactttc	ccaatgcttt	ttctctacca	acctgatgga
481	ataaacaggg	ataaagaatt	aatgagtgat	ataagtcatt	gtctaggata	ctcactggat
541	aaactggaag	agagcctcga	tgaggaactc	cgtcaatttc	gtgcttctct	ctgggctcgt
601	acgaagaaaa	cgtgcttgac	acgtggactt	gagggtacca	gtcactacgc	gttccccgaa
661	gaacagtact	tgtgtgttgg	tgaatcgtgc	ccgaaagatt	tggaatcaaa	agtcaaggct
721	gccaaagctga	gttatcagat	gttttgagga	aaacgtaaag	cggaaatcaa	tggagtttgc
781	gagaaaatga	tgaagattca	aattgaattc	aatccgaacg	aaactccgaa	atctctgctt
841	cacacgtttc	tctacgaaat	gcgaaaattg	gatgtatacg	ataccgatga	tcctgcagat
901	gaaggatggg	ttcttcaatt	ggctggacgt	accacgtttg	ttacaaatcc	agatgtcaaa
961	cttacgtctt	atgatgggtg	ccgttcggaa	ctggaaagct	atcgatgccc	tggattcgtt
1021	gttcgccgac	aatcactagt	cctcaaagac	tattgtcgcc	caaaaccact	ctacgaacca
1081	cattatgtga	gagcacacga	acgaaaactt	gctctagacg	tgctcagcgt	gtctatagat
1141	agcacaccaa	aacagagcaa	gaacagtgc	atggttatga	ctgattttcg	tccgacagct
1201	tactcaaac	aagtttcact	ttgggacctt	gacgcgaatc	ttatgatacg	gcctgtgaat
1261	atttctggat	tcgatttccc	ggccgacgtg	gatatgtacg	ttcgaatcga	attcagtgtg
1321	tatgtgggga	cactgacgct	ggcatcaaaa	tctacaacaa	aagtgaatgc	tcaatttgca
1381	aaatggaata	aggaaatgta	cacttttgat	ctatacatga	aggatatgcc	accatctgca
1441	gtactcagca	ttcgtgtttt	gtacggaaaa	gtgaaattaa	aaagtgaaga	attcgaagtt
1501	ggttgggtaa	atatgtccct	aaccgattgg	agagatgaac	tacgacaagg	acaattttta
1561	ttccatctgt	gggctcctga	accgactgcc	aatcgtagta	ggatcggaga	aaatggagca
1621	aggataggca	ccaacgcagc	ggttacaatt	gaaatctcaa	gttatggtgg	tagagttcga
1681	atgccgagtc	aaggacaata	cacatatctc	gtcaagcacc	gaagtacttg	gacggaaact
1741	ttgaatatta	tgggtgatga	ctatgagtcg	tgtatcagag	atccaggata	taagaagctt
1801	cagatgcttg	tcaagaagca	tgaatctgga	attgtattag	aggaagatga	acaacgtcat
1861	gtctggatgt	ggaggagata	cattcaaaag	caggagcctg	at ttgctcat	tgtgctctcc
1921	gaactcgc	ttgtgtggac	tgatcgtgag	aacttttccg	agctctatgt	gatgcttgaa
1981	aaatggaaac	cgccgagtg	ggcagccg	ttgactttgc	ttggaaaacg	ttgcacggat
2041	cgtgtgattc	gaaagtgtgc	agtggagaag	ttgaatgagc	agctgagccc	ggtcacattc
2101	catcttttca	tattgcctct	catacaggcg	ttgaagtacg	aaccgcgtgc	tcaatcggaa
2161	gttggaatga	tgctcttgac	tagagctctc	tgcgattatc	gaattggaca	tcgacttttc
2221	tggctgctcc	gtgcagagat	tgctcgtttg	agagattgtg	atctgaaaag	tgaagaatat
2281	cgccgtatct	cacttctgat	ggaagcttac	ctccgtggaa	atgaagagca	catcaagatc
2341	atcacccgac	aagttgacat	ggttgatgag	ctcacacgaa	tcagcactct	tgtcaaagga
2401	atgccaaaag	atgttgctac	gatgaaactg	cgtgacgagc	ttcgatcgat	tagtcataaa
2461	atggaaaata	tggattctcc	actggatcct	gtgtacaaac	tgggtgaaat	gataatcgac
2521	aaagccatcg	tcctaggaag	tgcaaaacgt	ccgttaatgc	ttcactggaa	gaacaaaaat
2581	ccaaagagtg	acctgcacct	tccgttctgt	gcaatgatct	tcaagaatgg	agacgatctt
2641	cgccaggaca	tgcttgttct	tcaagttctc	gaagttagtg	ataacatctg	gaaggctgca

Fig. 15 (sheet 1 of 2)

2701 aacattgatt gctgtttgaa cccgtacgca gttcttccaa tgggagaaat gattggaatt
 2761 attgaagttg tgcctaattg taaaacaata ttcgagattc aagttggaac aggattcatg
 2821 aatacagcag ttcggagtat tgatccttcg tttatgaata agtggattcg gaaacaatgc
 2881 ggaattgaag atgaaaagaa gaaaagcaaa aaggactcta cgaaaaatcc catcgaaaag
 2941 aagattgata atactcaagc catgaagaaa tattttgaaa gtgtcgatcg attcctatac
 3001 tcgtgtgttg gatattcagt tgccacgtac ataatgggaa tcaaggatcg tcacagtgat
 3061 aatctgatgc tctactgaaga tggaaaatat gtccacattg atttcggtca cattttggga
 3121 cacggaaaga ccaaacttgg gatccagcga gatcgtcaac cgttttattct aaccgaacac
 3181 tttatgacag tgattcgatc gggtaaactc gtggatggaa attcgcatga gctacaaaaa
 3241 ttcaaaacgt tatgctcga agcctacgaa gtaatgtgga ataatcgaga tttgttcggt
 3301 tccttggtca ccttgatgct cggaatggag ttgcctgagc tgtcgacgaa agcggatttg
 3361 gatcatttga agaaaaccct cttctgcaat ggagaaagca aagaagaagc gagaaagttt
 3421 ttcgctggaa tctacgaaga agccttcaat ggatcatggt ctaccaaacc gaattggctc
 3481 ttccacgcag tcaaacta ctga

Fig. 15 (sheet 2 of 2)

1	RKPWSSRSDC	WTRTELRRIS	QMHVNILHPQ	LQTMVEQWQM	RERPSLETEN	GKGSLLLENE
61	GVADIITMCP	FGEVISVVF	WFLANVRTSL	EIKLSDFKHQ	LFELIAPMKW	GTYSVKPQDY
121	VFRQLNNFGE	IEVIFNDDQP	LSKLELHGTF	PMLFLYQPDG	INRDKELMSD	ISHCLGYSLD
181	KLEESLDEEL	RQFRASLWAR	TKKTCLTRGL	EGTSHYAFPE	EQYLCVGESC	PKDLESKVKA
241	AKLSYQMFWR	KRKAIEINGVC	EKMMKIQIEF	NPNETPKSLL	HTFLYEMRKL	DVYDTDDPAD
301	EGWFLQLAGR	TTFVTNPDPK	LTSYDGVRS	LESYRCPGFV	VRRQSLVLKD	YCRPKPLYEP
361	HYVRAHERKL	ALDVLSVSD	STPKQSKNSD	MVMTDFRPTA	SLKQVSLWDL	DANLMIRPVN
421	ISGFDFPADV	DMYVRIEFSV	YVGTTLTASK	STTKVNAQFA	KWNKEMYTFD	LYMKDMPPSA
481	VLSIRVLYGK	VKLKSEEFV	GWVNMSLTW	RDELROGQFL	FHLWAPEPTA	NRSRIGENGA
541	RIGTNAAVTI	EISSYGGVR	MPSQGQTYL	VKHRSTWTET	LNIMGDDYES	CIRDPGYKKL
601	QMLVKKHESG	IVLEEDEQRH	VWMWRRYIQK	QEPDLLIVLS	ELAFVWTDRE	NFSELYVMLE
661	KWKPPSVAAA	LTLLGKRCTD	RVIRKFAVEK	LNEQLSPVTF	HLFILPLIQA	LKYEPRQAQSE
721	VGMMLLTRAL	CDYRIGHRLF	WLLRAEIARL	RDCDLKSEY	RRISLLMEAY	LRGNEEHIKI
781	ITRQVDMVDE	LTRISTLVKG	MPKDVATMKL	RDELRSISHK	MENMDSPLDP	VYKLGEMIID
841	KAIVLGSARK	PLMLHWKNKN	PKSDLHLPFC	AMIFKNGDDL	RQDMLVLQVL	EVMDNIWKAA
901	NIDCCLNPYA	VLPMGEMIGI	IEVVPNCKTI	FEIQVGTGFM	NTAVRSIDPS	FMNWKIRKQC
961	GIEDEKKKSK	KDSTKNPIEK	KIDNTQAMKK	YFESVDRFLY	SCVGYSVATY	IMGIKDRHSD
1021	NLMLTEDGKY	VHIDFGHILG	HGKTKLGIQR	DRQPFILTEH	FMTVIRSGKS	VDGNSHELQK
1081	FKTLCVEAYE	VMWNNRDLFV	SLFTLMLGME	LPELSTKADL	DHLKKTLCFN	GESKEEARKF
1141	FAGIYEEAFN	GSWSTKTNWL	FHAVKHY			

Fig. 16

**CONVERGENT TGF- β AND INSULIN SIGNALING
ACTIVATE GLUCOSE-BASED METABOLISM GENES**

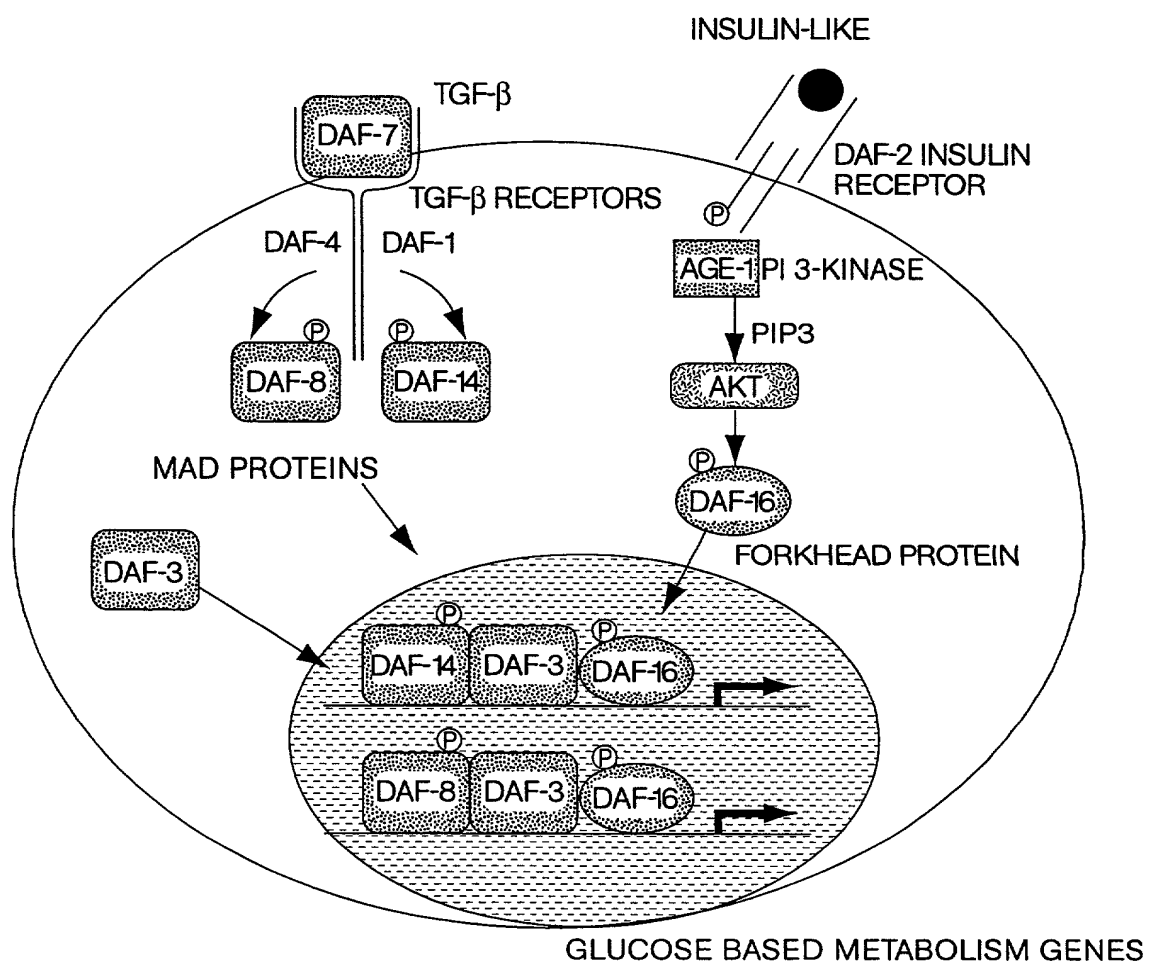


Fig. 17

IN PHEROMONE, NO TGF β OR INSULIN-LIKE SIGNALS
CAUSES REPRESSION OF ANABOLIC GENES

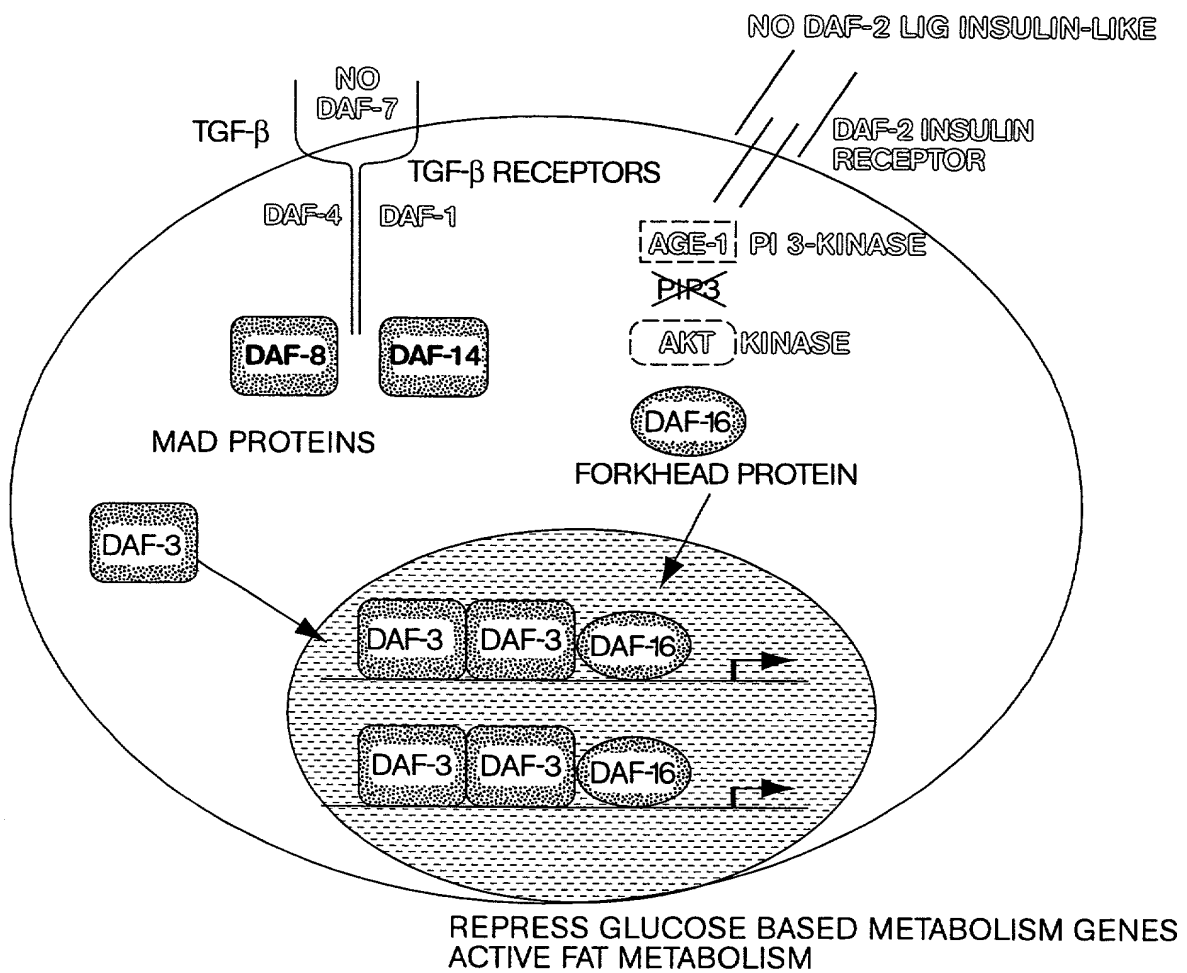
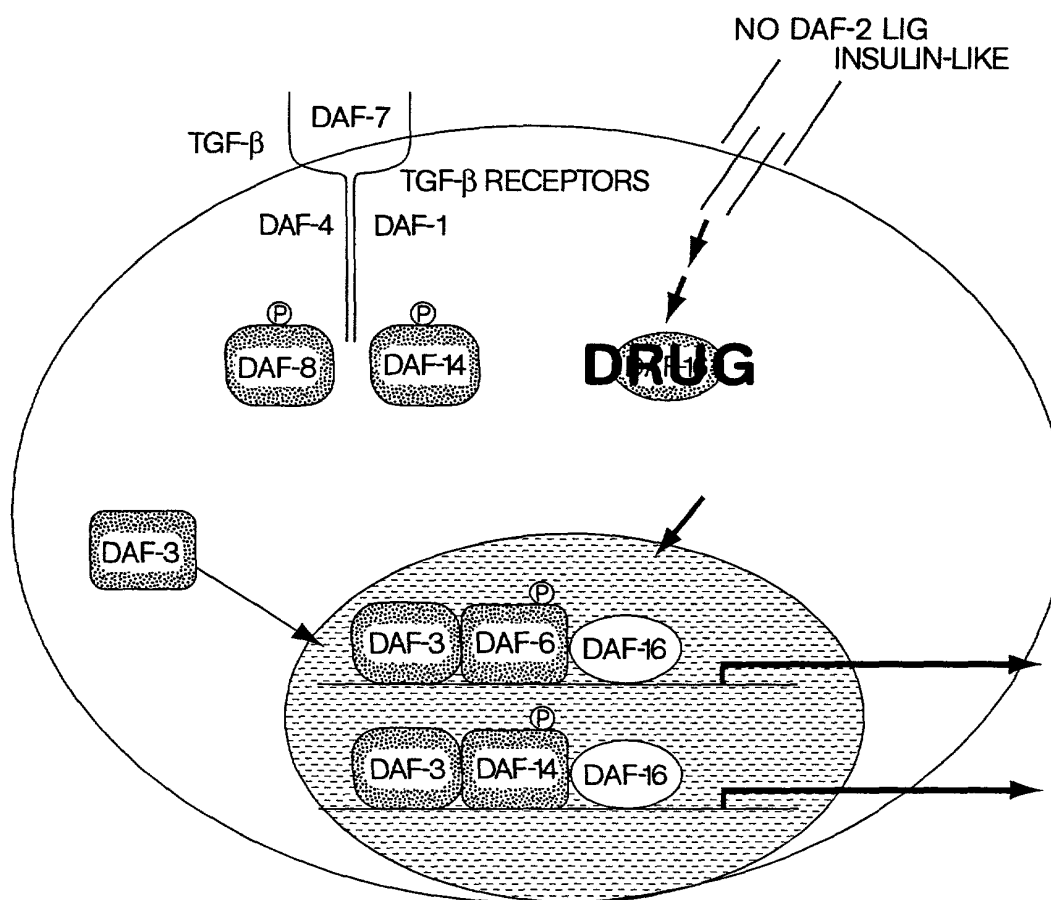


Fig. 18

DRUGS THAT INHIBIT DAF-16 OR DAF-3
(OR PROTEINS IN THE PATHWAY)
CAN BE DISCOVERED USING REPORTER GENES
BEARING THEIR COGNATE BINDING SITES



DRUG CAUSES A DECREASE IN DAF-16 ACTIVITY, ACTIVATING
THE REPORTER GENE LIKE A DAF-16 MUTANT.
THIS BYPASSES THE NEED FOR INSULIN

Fig. 19

TOLEDO GENETICS

**DRUGS THAT INHIBIT DAF-3 WILL CURE
THE DIABETES CAUSED BY A LACK OF DAF-7**

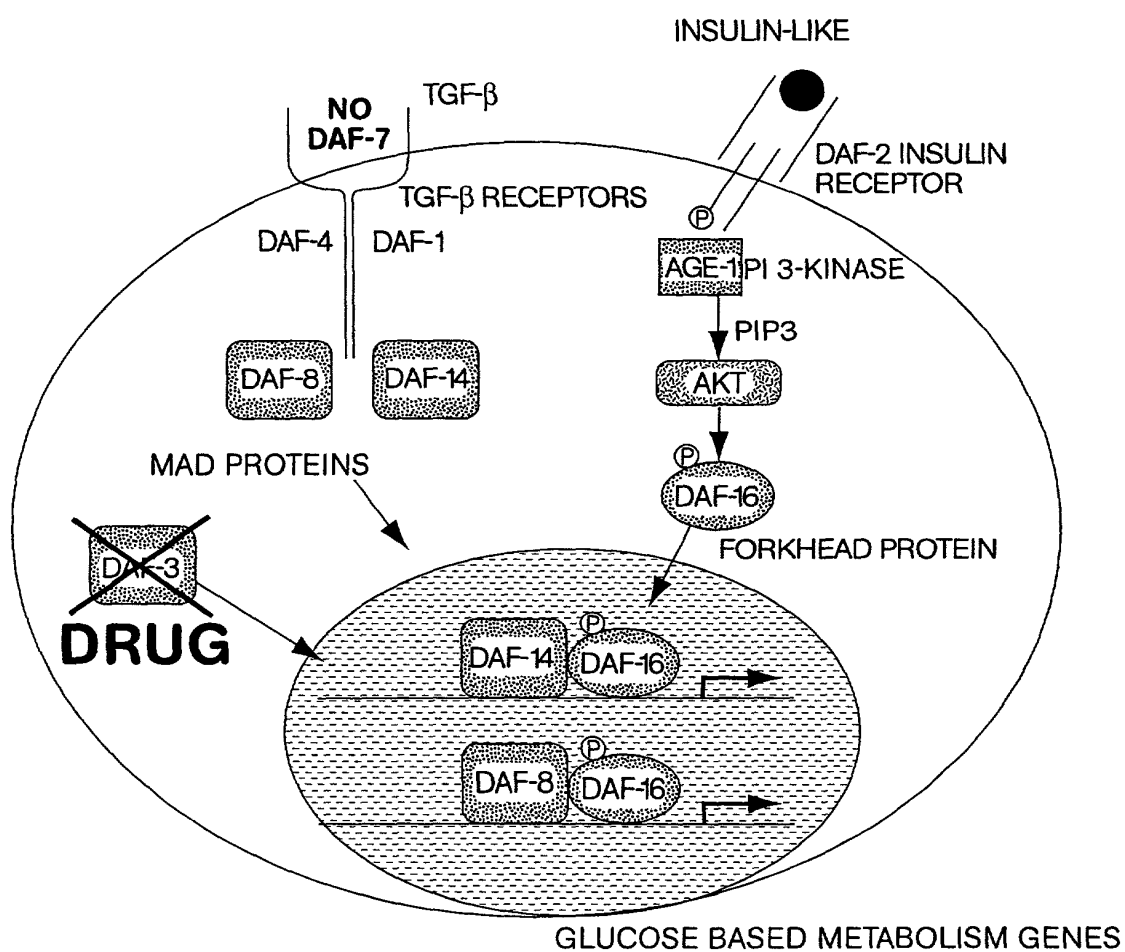


Fig. 20

Fig. 21A (sheet 1 of 3)

Hnf3a	SLITMAIQRA	PSKMLTLSEL	YQWIMDLFPY	YRONQQR...	..WQNSIRHS	LSLND	227
Hnf3g	SLITMAIQQA	PGKVLTLSEL	YQWIMDLFPY	YRDNQQR...	..WQNSIRHS	LSLND	171
D16123a467891011	ELITTAIMAS	PEKRLTLAQM	YEMMVQNVPI	FRDKGDSNSS	AGWKNISIRHN	LSLHS	205
D1612567891011	DIIAKALES	PDGRKLKNEI	YQWFSNIPY	FGERSSPPEA	AGWKNISIRHN	LSLHS	330
Afx	ELISQAIESA	PEKRLTLAQM	YEMMVRTVPI	FKDKGDSNSS	AGWKNISIRHN	LSLHS	158
Fkhr	DLITKAIESS	AEKRLTLAQM	YEMMVKSVPY	FKDKGDSNSS	AGWKNISIRHN	LSLHS	221
Consensus	-LIT-AI--A	P-KRLTL--L	Y-W-----PY	F-D-----	AGWKNISIRHN	LSLHS	330
Hnf3a	CFVKVARSPD	KPGKGSWWTL	HPDSG	.....NM	FENGCYLRRQ	KRFKC	269
Hnf3g	CFVKVARSPD	KPGKGSWWTL	HPSSG	.....NM	FENGCYLRRQ	KRFKL	213
D16123a467891011	RFMRQON..E	GAGKSSWWV	NPD.AKPGMN	PRRTRERSNT	IETTTKAQLE	KSRRG	257
D1612567891011	RFMRQON..E	GAGKSSWWV	NPD.AKPGMN	PRRTRERSNT	IETTTKAQLE	KSRRG	382
Afx	KFIKVHN..E	ATCKSSWWML	NPEGKSGKA	PRR...RAAS	MSSSKLLRG	RSKAP	208
Fkhr	KEIRVQN..E	GTCKSSWWML	NPEGKSGKS	PRR...RAAS	MNNNSKFAKS	RSRAA	271
Consensus	-E--V-N--E	--GKSSWW-L	NP--GK-G--	PRR--R-N-	-E-----K-	KS---	385
Hnf3a	EKQPGAG...	GGGSGSGGS	GAKGGPESRK	DPSGASNPISA	DSPLHRGVHG	KTGQL	321
Hnf3g	EKQPGAG...	GGGSGSGGS	TGSAASTTTP	AATVTSPP..	.....	...	248
D16123a467891011	AKKRIKERAL	MGSLLHSTLNG	NSIAGSIQTI	SHDLYDDDSM	QGAFDNVPSS	FRPRT	312
D1612567891011	AKKRIKERAL	MGSLLHSTLNG	NSIAGSIQTI	SHDLYDDDSM	QGAFDNVPSS	FRPRT	437
Afx	KKKP.....	.SVLPAPPEG	ATPTSPVGHF	AKWSGSPCSR	NREADMWTT	FRPRS	256
Fkhr	KKKA.....	.S.LQSGQEG	AG.DSPGSQF	SKWPAEPGSH	SNDDFDNWST	FRPRT	317
Consensus	-KK-----	--L-----G	-----S--S-	-----S--S-	-----	FRPR-	440
Hnf3a	EGAPAPGPAA	SPQTLDHSGA	TATGGASELK	TPASSATAPPI	SSGPGALASV	PASHP	376
Hnf3g	.QPPPPAPEP	EAQGGEDVGA	LDCGS.....	.PASSTP...	.....	...	278
D16123a467891011	QSNLS.....	.....	.....	IPGSS.SRVS	PAIGS.....	...	331
D1612567891011	QSNLS.....	.....	.....	IPGSS.SRVS	PAIGS.....	...	456
Afx	SSNASSVSTR	LSPLRPESEV	LAEE.....	IPASV.SSYA	GGVPPTLN..	..EGL	300
Fkhr	SSNASTISGR	LSPIMTEQDD	LGEQDVHSMV	YPPSA.AKMA	STLPSLSEIS	NPENM	371
Consensus	-SN-S-----	-----	-----	-P-SS-----	-----	----	495
Hnf3a	AHGLAPHEEQ	LHLKGDPHYS	FNHFFSINNLL	MSS.SEQQHK	LDFKAYEQAL	QYSPY	430
Hnf3g	..YFTGLELP	GDCLKLDAPYN	FNHFFSINNLL	MSEQTPAPPK	LD.....V	GFGGY	324
D16123a467891011	.DIYDDLEF.	..PSWVGESV	PAIP.....	.....	.....	...	351
D1612567891011	.DIYDDLEF.	..PSWVGESV	PAIP.....	.....	.....	...	476
Afx	E.LLDGHNLT	SSHLLSRSG	LSG.....	.....	.....	PLHTY	337
Fkhr	ENLLDNLNLL	SSPTSLTVST	QSSGTMQOQ	TPCYSFAPPN	TSLNSPSPNY	QKITY	426
Consensus	----D-LE--	-----S-	-----P-	-----	-----	----	550

Fig. 21A (sheet 2 of 3)

Hnf3a	GSTLPASLPL	GSASVTRSP	IEP	SALEPAY	YQGVYSR	PV	NTS	.....	473
Hnf3g	GAE	.....	.....	.....	.....	.....	NAS	.....	347
D16123a467891011	SDIVD	RTDQMRIDAT	THIGGVQ	.....	IKQESKPIK	TEPIA	APPPSY	HELNS	397
D1612567891011	SDIVD	RTDQMRIDAT	THIGGVQ	.....	IKQESKPIK	TEPIA	APPPSY	HELNS	522
Afx	SSSLFSP	.....	AE	GPI	AGEGCF	SSSQALEAL	TS	DTPPPPAD	381
Fkhr	GQSSMSPLPQ	MPIQTLQDNK	SSY	GCMSQYN	CAPGLLKEL	TS	DSPPH	N	479
Consensus	-----S-----	-----	GG-----	-----S-----	-----	T-----P-----	-----	-----	605
Hnf3a	.....	.....	.....	.....	.....	.....	.....	.....	473
Hnf3g	VRGSCA	QNP	.....	.....	.....	.....	.....	.....	347
D16123a467891011	VRGSCA	QNP	.....	.....	.....	.....	.....	.....	450
D1612567891011	VRGSCA	QNP	.....	.....	.....	.....	.....	.....	575
Afx	VDPILS	QAPT	LL	.....	LGG	LPSS	SKLA	TGVGLC	416
Fkhr	VDPGVA	QPN	RV	GCNVMMG	PNSVMSTYGS	QASH	NKMM	NPSSHTHPGH	532
Consensus	V-----Q-----	-----	-----	-----	-----	-----	-----	-----	660
Hnf3a	.....	.....	.....	.....	.....	.....	.....	.....	473
Hnf3g	GIQSCGIVAA	QHTVASSSAL	PIDLENLTLP	.....	.....	.....	.....	.....	347
D16123a467891011	GIQSCGIVAA	QHTVASSSAL	PIDLENLTLP	.....	.....	.....	.....	.....	488
D1612567891011	GIQSCGIVAA	QHTVASSSAL	PIDLENLTLP	.....	.....	.....	.....	.....	613
Afx	ARGPSSLVPT	LSMIAPPPVM	AS	.....	.....	.....	.....	.....	458
Fkhr	AVNGRPLPHT	VSTMPHTSGM	NRLTQVKTPV	.....	.....	.....	.....	.....	587
Consensus	-----	-----	-----	-----	-----	-----	-----	-----	715
Hnf3a	.....	.....	.....	.....	.....	.....	.....	.....	473
Hnf3g	.....	.....	.....	.....	.....	.....	.....	.....	347
D16123a467891011	.....	.....	.....	.....	.....	.....	.....	.....	510
D1612567891011	.....	.....	.....	.....	.....	.....	.....	.....	635
Afx	.....	QDR	MPQDL	LDLDMY	MENLECDMDN	IS	DLMDGE	GLDFN	501
Fkhr	GRMGLLHQEK	LPSDLD	GMF	IERLDC	DMES	IR	NDLMDGD	TLDNF	641
Consensus	-----	-----	-----	-----	-----	-----	-----	-----	770
Hnf3a	.....	.....	.....	.....	.....	.....	.....	.....	473
Hnf3g	.....	.....	.....	.....	.....	.....	.....	.....	347
D16123a467891011	.....	.....	.....	.....	.....	.....	.....	.....	510
D1612567891011	.....	.....	.....	.....	.....	.....	.....	.....	635
Afx	.....	.....	.....	.....	.....	.....	.....	.....	501
Fkhr	PHSVKTTTHS	WVSG	655	.....	.....	.....	.....	.....	641
Consensus	-----	-----	-----	-----	-----	-----	-----	-----	770

Fig. 21A (sheet 3 of 3)

EUROPEAN

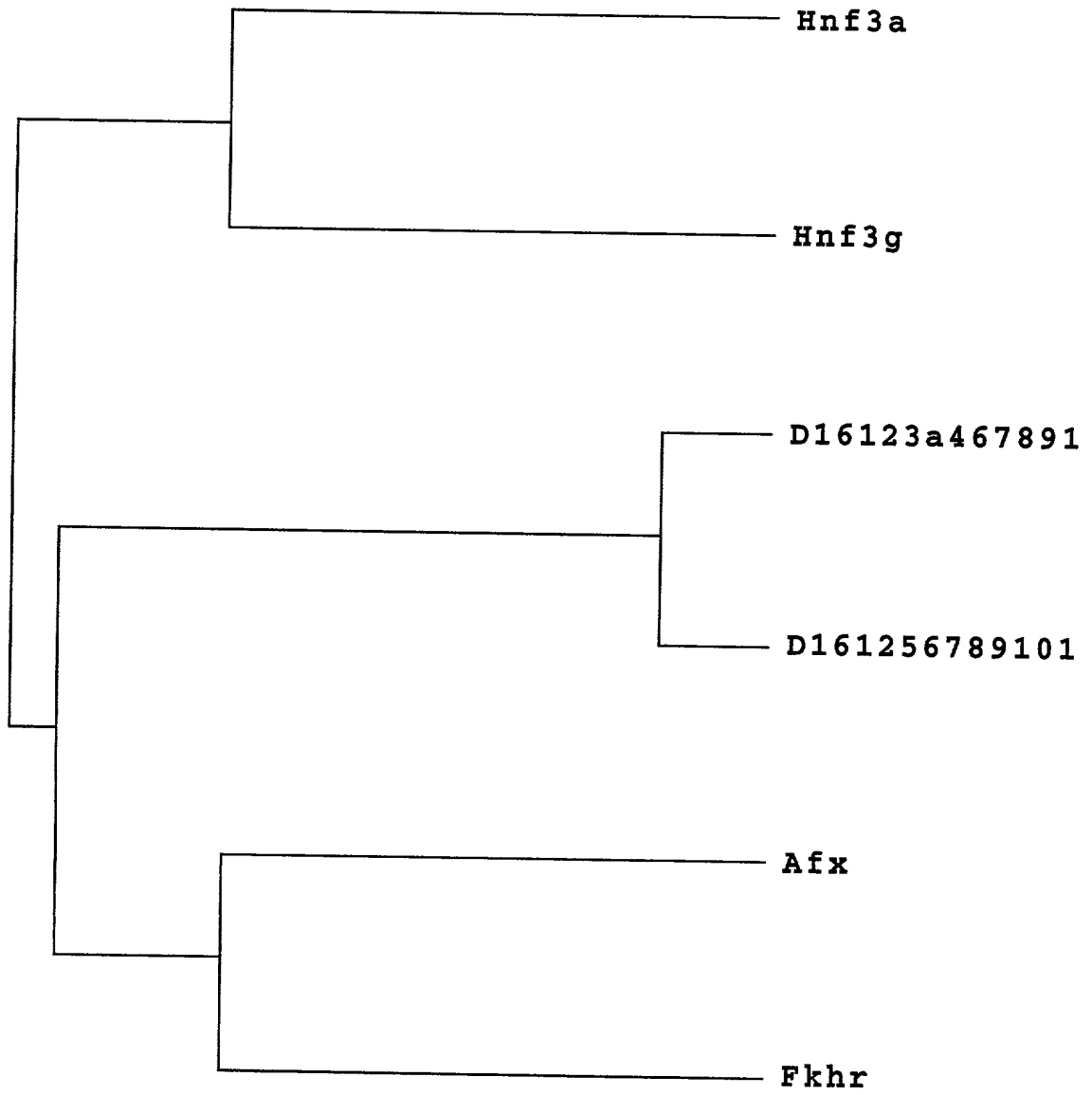


Fig. 21B

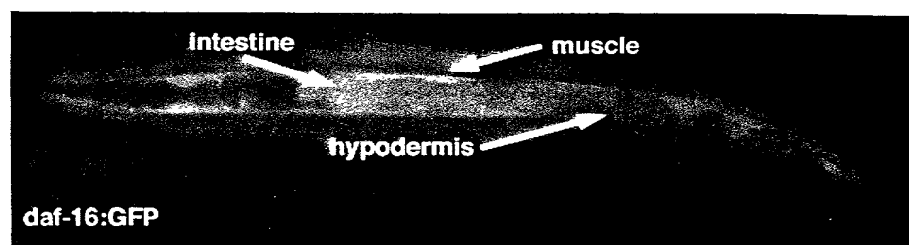
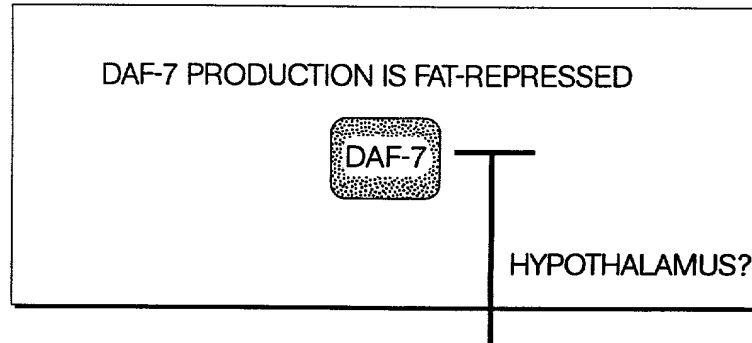


Fig. 22

INJECTION OF OF DAF-7 BYPASSES OBESITY-INDUCED DEFECTS IN INSULIN-REGULATION OF METABOLISM



FATTY ACIDS IN BLOOD REPRESS DAF-7 IN ANALOGY TO PHEROMONE REGULATION OF DAF-7 IN C. ELEGANS

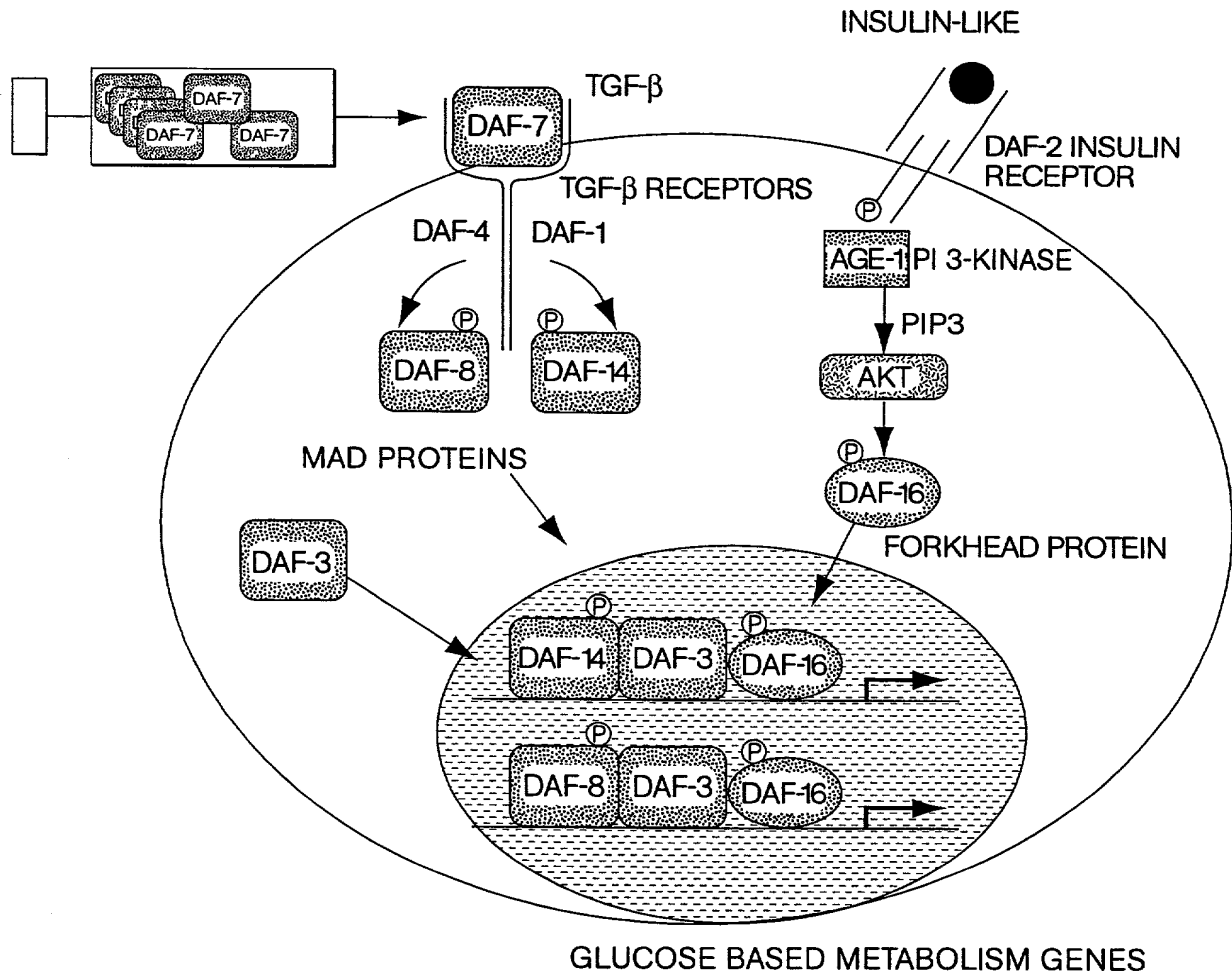


Fig. 23

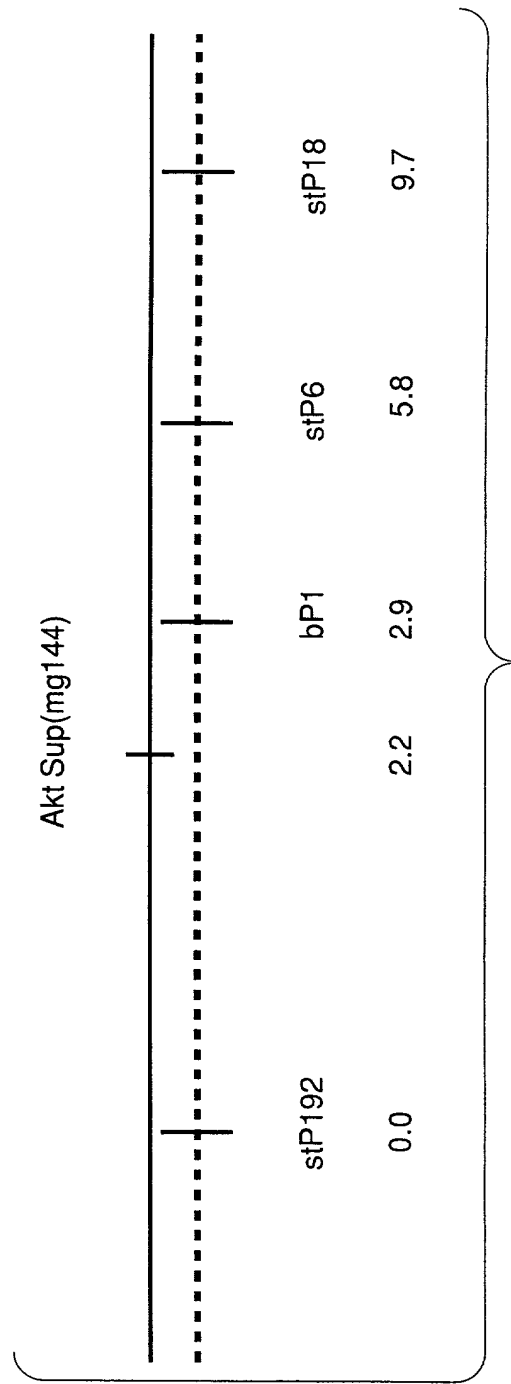


Fig. 24

Comparison of the human AKT protein sequence to the cosmid sequence C12D8, located in the genetic interval where sup(mg144) maps. Numbering in the AKT protein sequence by amino acid residues, and in the cosmid sequence by nucleotide position.

Score = 450 (207.4 bits), Expect = 5.2e-165, Sum P(7) = 5.2e-165
Identities = 79/121 (65%), Positives = 97/121 (80%), Frame = +1

Query: 319 EVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHEKLFELILMEEIRFPRTLGPPEAKS 378
+VL+D+DYGR VDWWG+GVVMYEMMCGRLPFY++DH KLFELI+ ++RFP L EA++
Sbjct: 33685 QVLDDHDYGRCDVDWWGVGVVMYEMMCGRLPFYSKDHNKLFELIMAGDLRFPSKLSQEART 33864

Query: 379 LLSGLLKKDPTQRLGGGSEDAKEIMQHRFFANIVWQDVYEKKLSPPFKPQVTSETDTRYFD 439
LL+GLL KDPTQRLGGG EDA EI + FF + W+ Y K++ PP+KP V SETDT YFD
Sbjct: 33865 LLTGLLVKDPTQRLGGGPEDALEICRADFFRTVDWEATYRKEIEPPYKPNVQSETDTSYFD 34047

Score = 256 (118.0 bits), Expect = 5.2e-165, Sum P(7) = 5.2e-165
Identities = 48/66 (72%), Positives = 59/66 (89%), Frame = +1

Query: 146 TMNEFEYLKLLGKGTFGKVILVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNS 205
TM +F++LK+LGKGTFGKVIL KEK T + YA+KILKK+VI+A++EVAHTLTENRVLQ
Sbjct: 32314 TMEDFDLFLKVLGKGTFGKVILCKEKRQKLYAIKILKDDVIIAREEVAHTLTENRVLQRC 32493

Query: 206 RHPFLT 211
+HPFLT
Sbjct: 32494 KHPFLT 32511

Score = 190 (87.6 bits), Expect = 5.2e-165, Sum P(7) = 5.2e-165
Identities = 36/45 (80%), Positives = 37/45 (82%), Frame = +2

Query: 276 KLENLMLDKDGHIKITDFGLCKEGIKDGATMKTFCGTPEYLAPEV 320
KLENL+LDKDGHIKI DFGLCKE I G TFCGTPEYLAPEV
Sbjct: 33509 KLENLLLDKDGHIKIADFGLCKEEISFGDKTSTFCGTPEYLAPEV 33643

Score = 188 (86.7 bits), Expect = 5.2e-165, Sum P(7) = 5.2e-165
Identities = 37/57 (64%), Positives = 42/57 (73%), Frame = +3

Query: 209 FLTALKYSFQTHDRLCFVMEYANGGELFFHLSRERVFSEDRARFYGAIEVSALDYHL 265
+ LKYSFQ LCFVM++ANGGELF H+ + FSE RARFYGAIEV AL YLH
Sbjct: 32667 YFQELKYSFQEQHYLCFVMQFANGGELFTHVRKCGTFSEPRARFYGAIEVLAALGYHL 32837

Score = 166 (76.5 bits), Expect = 5.2e-165, Sum P(7) = 5.2e-165
Identities = 29/59 (49%), Positives = 42/59 (71%), Frame = +1

Query: 53 NNFSVAQCQLMKTERPRPNTFIIRCLQWTTVIERTFHVETPEEREWEATAIQTVDGLK 111
+ F++ Q M E+PRPN F++RCLQWTTVIERTF+ E+ E R+ W AI++++ K
Sbjct: 31846 STFAIFYFQTMLEKPRPNMFVRCLQWTTVIERTFYAESAEVRQRWIHAIESISKKYK 32022

Score = 134 (61.8 bits), Expect = 5.2e-167, Sum P(8) = 5.2e-167
Identities = 24/33 (72%), Positives = 30/33 (90%), Frame = +3

Query: 210 LTALKYSFQTHDRLCFVMEYANGGELFFHLSRE 242
L LKYSFQT+DRLCFVME+A GG+L++HL+RE
Sbjct: 33156 LQELKYSFQTNDRLCFVMEFAIGGDLYHLNRE 33254

Fig. 25

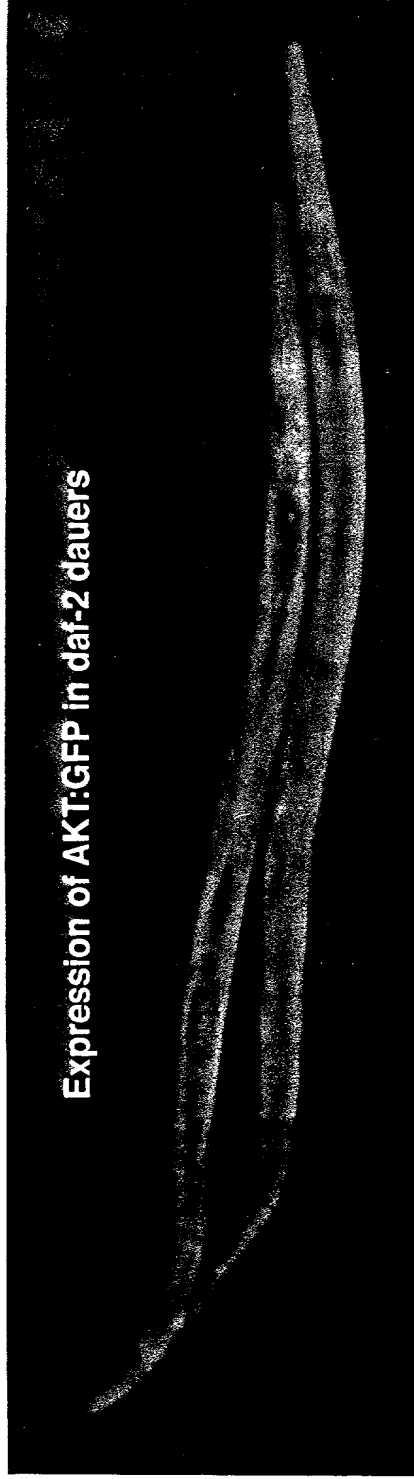


Fig. 26A

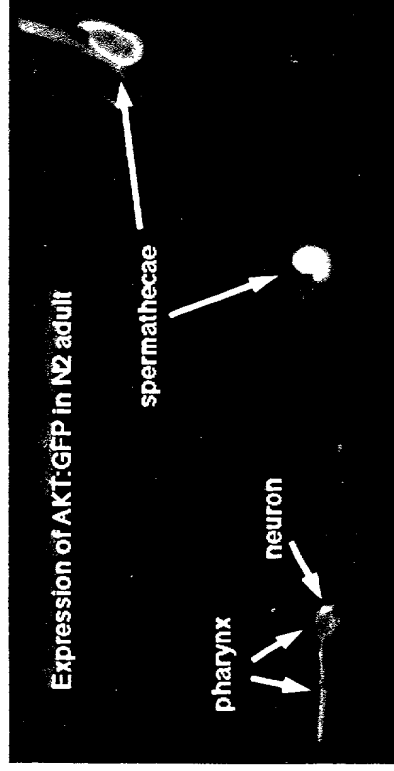


Fig. 26B

